

military illustrated

# modeller

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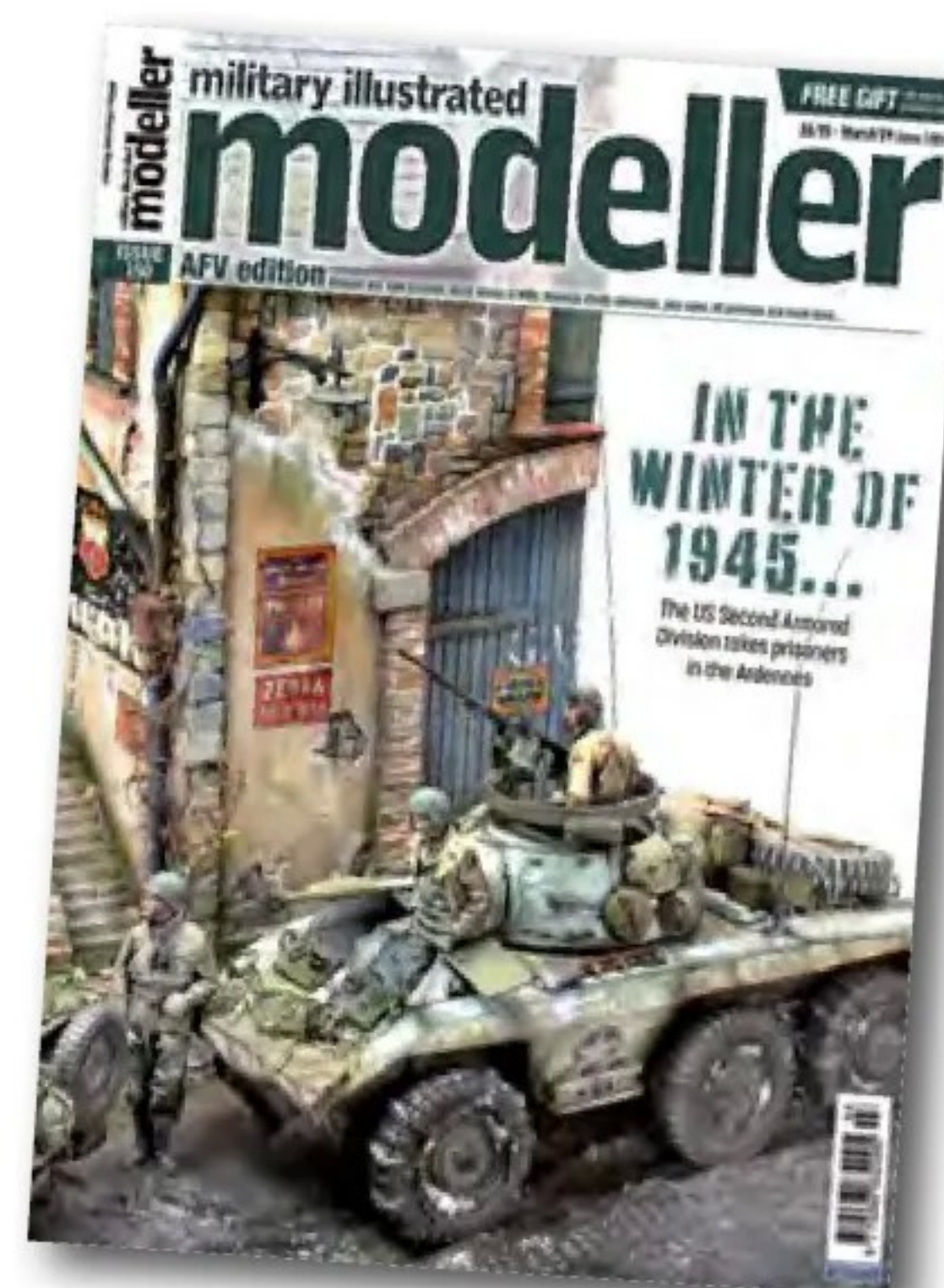
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## NEWS JUST IN...



### COPPER STATE MODELS

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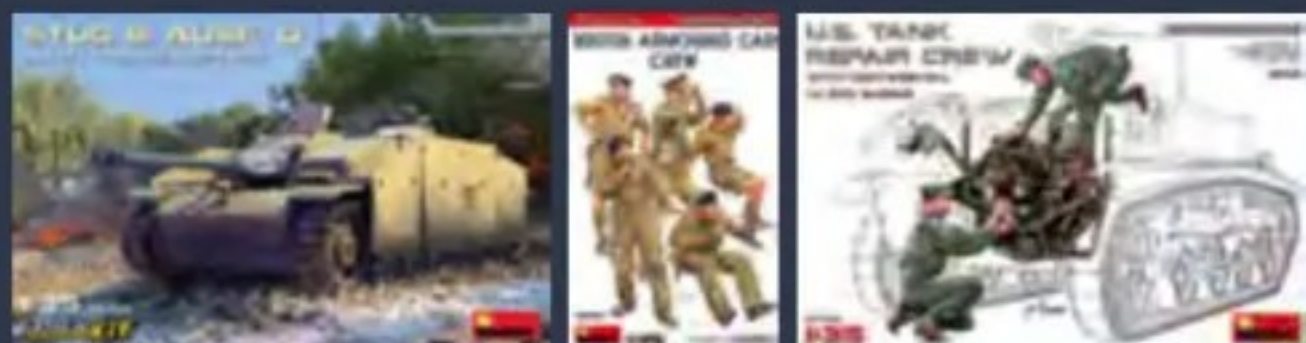


### ICM

- 1:35 Kozak-2 Ukrainian National Guard  
- 1:35 Type G4 with MG34 German Staff Personnel  
- 1:35 Beobachtungspanzerwagen Sd.Kfz.251/18 Ausf.A  
- 1:35 Studebaker US6-U3  
- 1:35 Phu Bai Combat Base 1968  
- 1:35 CH-54A Tarhe with Universal Military Pod  
- Wehrmacht Afrikakorps acrylic paint set  
[icm.com.ua](http://icm.com.ua) [hannants.co.uk](http://hannants.co.uk)

### MAGIC FACTORY

- 1:35 M2A2 Bradley  
ODS-SA Ukraine



### MINIART

- 1:35 StuG.III Ausf.G Alkett Prod.  
October 1943  
- 1:35 British Armoured Car Crew  
- 1:35 US tank repair crew with  
Continental W-570 engine

[miniart-models.com](http://miniart-models.com) [creativemodels.co.uk](http://creativemodels.co.uk)

### VOLKSWAGEN TYPE 87



### RYE FIELD MODEL

- 1:35 Volkswagen Type 87 with full interior  
- 1:35 Tiger I Late Production Villers-Bocage  
[ryefield-model.com](http://ryefield-model.com)

### TRUMPETER

- 1:35 US LVSR MKR16  
10x10 Tractor  
[bachmann.co.uk](http://bachmann.co.uk)

### VESPID MODELS

- 1:72 T-34/85 Mod.1944  
Plant 183  
[tankmuseumshop.org](http://tankmuseumshop.org)



## NEW FROM ANDY'S HOBBY HEADQUARTERS

### 1:16 M8 GREYHOUND

Jaw-dropping news from Andy's Hobby Headquarters with their announcement of a 1:16 kit of the WW2 American M8 Greyhound armoured car!

[www.andyshhq.com](http://www.andyshhq.com)



## NEW FROM GECKO MODELS

1:35 BRITISH WWII TRACTOR  
4X4 FIELD ARTILLERY  
(C8 MK.II LATE) 35GM0066)  
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[www.tigerhobbies.co.uk](http://www.tigerhobbies.co.uk)



## NEW FROM ICM

1:35 WWI US AMMUNITION  
TRUCK FWD TYPE B

This magnificent machine comes with solid 'tyres' plus an exposed drivetrain packed with detail.

[www.icm.com.ua](http://www.icm.com.ua) [www.hannants.co.uk](http://www.hannants.co.uk)

## NEW FROM TAMIYA

2024 CATALOGUE

It's a paramount perennial purchase for all modellers! Tamiya's new 2024 catalogue is on sale soon...

[www.tamiya.com](http://www.tamiya.com) [www.hobbyco.net](http://www.hobbyco.net)



## RYE FIELD MODEL

### 1:35 LEOPARD 2A7V

The Leopard is a handsome beast and RFM's new kit does it justice, with workable tracks and masses of fine detail up top.

[www.ryefield-model.com](http://www.ryefield-model.com)

[www.scalemodelshop.co.uk](http://www.scalemodelshop.co.uk)







## NEW FROM MINIART 1:35 US M3 STUART INITIAL PRODUCTION

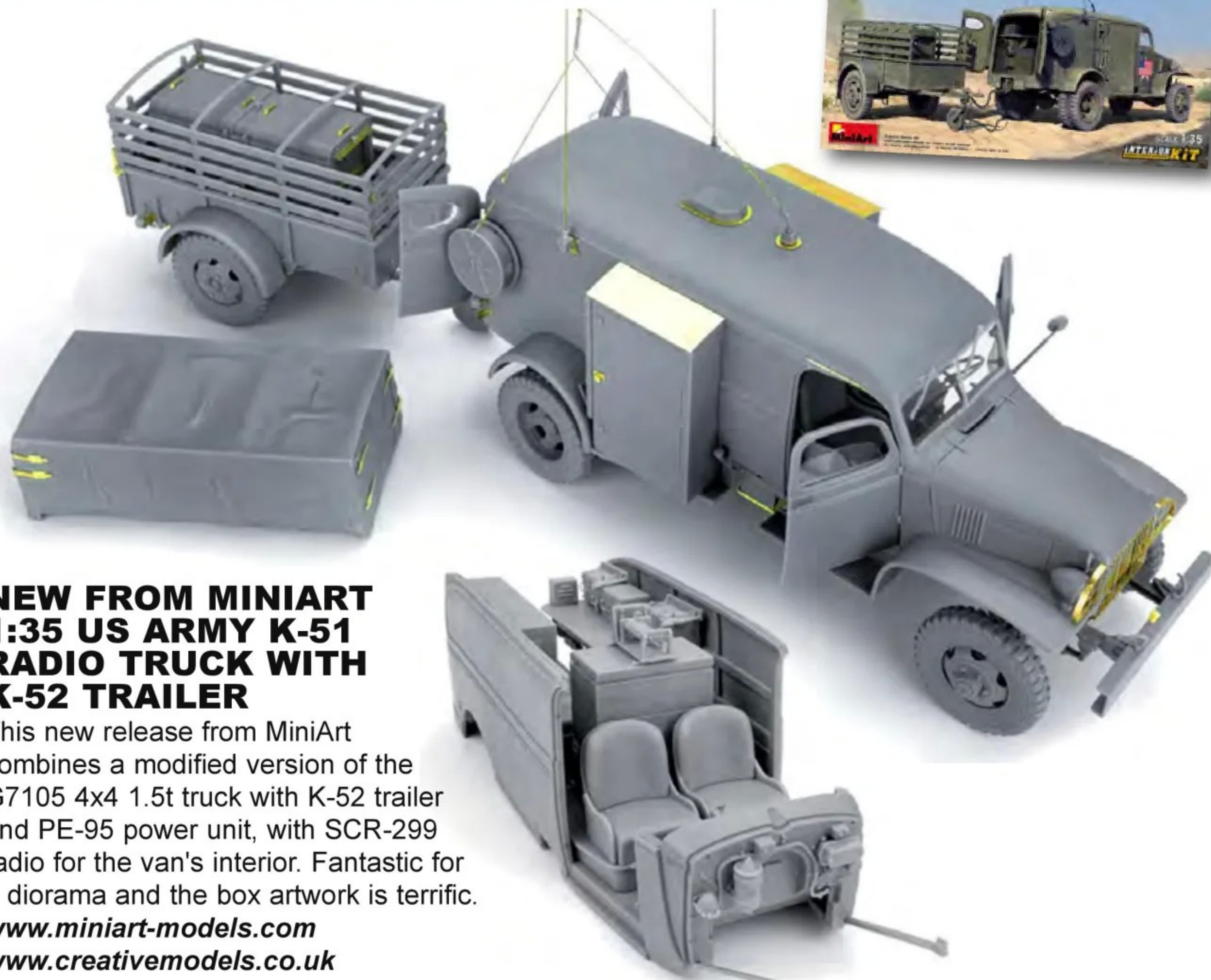
This is an all-new kit from MiniArt depicting the initial production variant of the early-war US M3 Stuart light tank and it comes with full interior, including radial engine!

[www.miniart-models.com](http://www.miniart-models.com)  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)



## THIS MONTH IN TAMIYA MODEL MAGAZINE...

In the March 2024 Issue (341) of Tamiya Model Magazine we have a detailed article on Tamiya's superb 1:35 Jagdpanzer 38(t) Hetzer. Check it out! [www.doolittlemedia.com](http://www.doolittlemedia.com)



## NEW FROM MINIART 1:35 US ARMY K-51 RADIO TRUCK WITH K-52 TRAILER

This new release from MiniArt combines a modified version of the G7105 4x4 1.5t truck with K-52 trailer and PE-95 power unit, with SCR-299 radio for the van's interior. Fantastic for a diorama and the box artwork is terrific.

[www.miniart-models.com](http://www.miniart-models.com)  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)



## NEW FROM ICM 1:35 BURMA JEEPS

This curious-looking vehicle is all new from ICM and great for dioramas.

[www.icm.com.ua](http://www.icm.com.ua)  
[www.hannants.co.uk](http://www.hannants.co.uk)



## NEW FROM HOBBYBOSS

New from Hobbyboss are the 1:35 Bergepanzer BPz3A1 'Buffalo' ARV, 1:35 Russian BMD-2 and 1:72 Russian 9K79 Tochka (SS-21 Scarab) IRBM.

[www.creativemodels.co.uk](http://www.creativemodels.co.uk)

## TAKOM 1:35 HETZER VARIANTS

Takom's family of Jagdpanzer 38(t)s continues to grow, with the command version (full interior) and winterketten, Flakpanzer 38(t) 'Kugelblitz' and Flammpanzer 38(t) on the way soon.

[www.bachmann.co.uk](http://www.bachmann.co.uk)



## NEW FROM MINIART 1:35 US G-518 1T 'BEN HUR' CARGO TRAILER WITH CANVAS

The iconic WW2 American 'Ben Hur' trailer has an almost infinite number of uses, so buy lots of them!

[www.miniart-models.com](http://www.miniart-models.com)  
[www.creativemodels.co.uk](http://www.creativemodels.co.uk)



## NEW FROM MINIART 1:35 US G-506 4X4 1.5T PANEL DELIVERY TRUCK

In its third incarnation, MiniArt's stunning G506 van can be built as military or civilian versions.

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KIT PREVIEW

# RECON RUNNER

Gecko Model have pleased many modellers with their 1:35 Daimler Armoured Car Mk.II

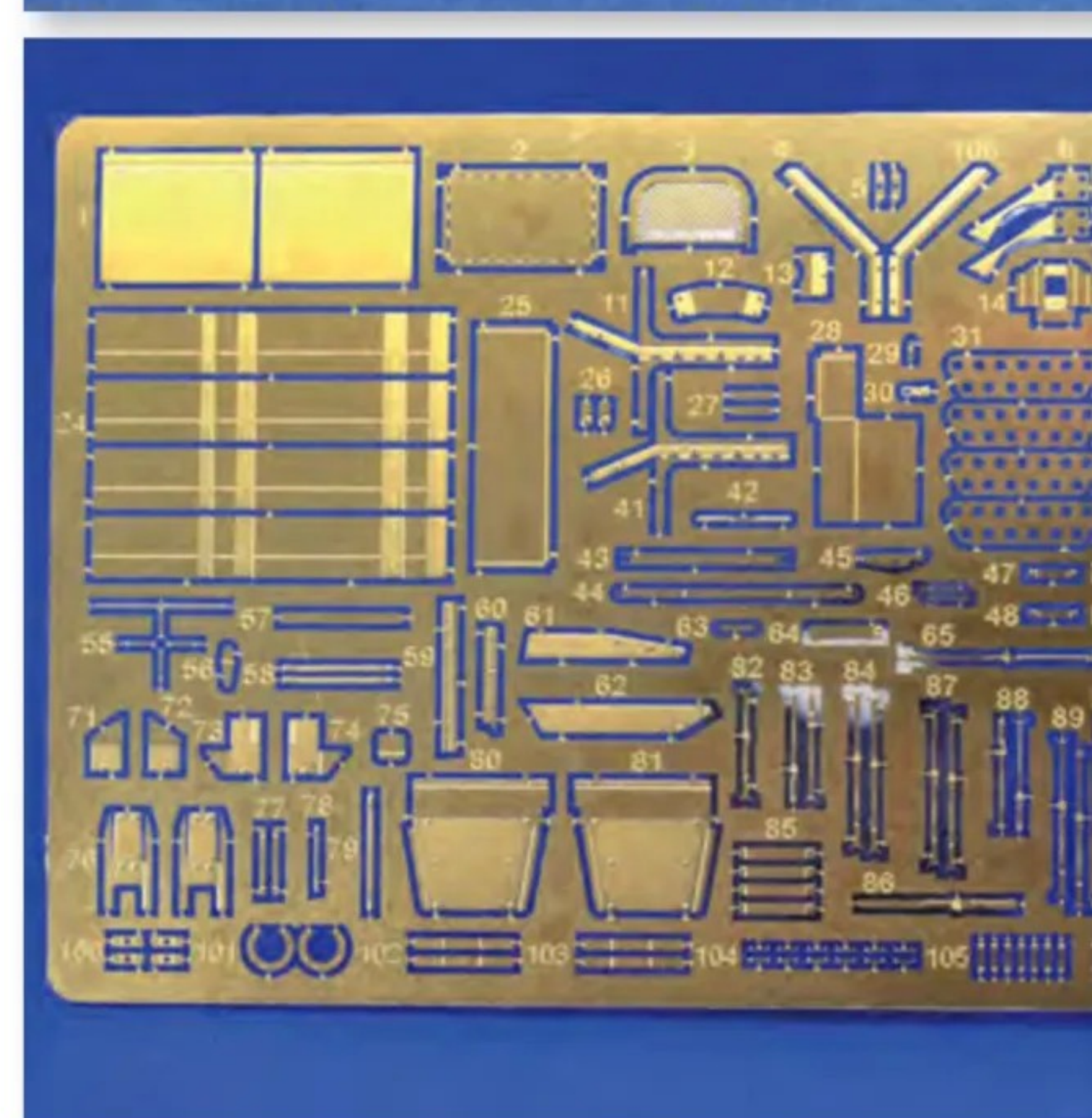
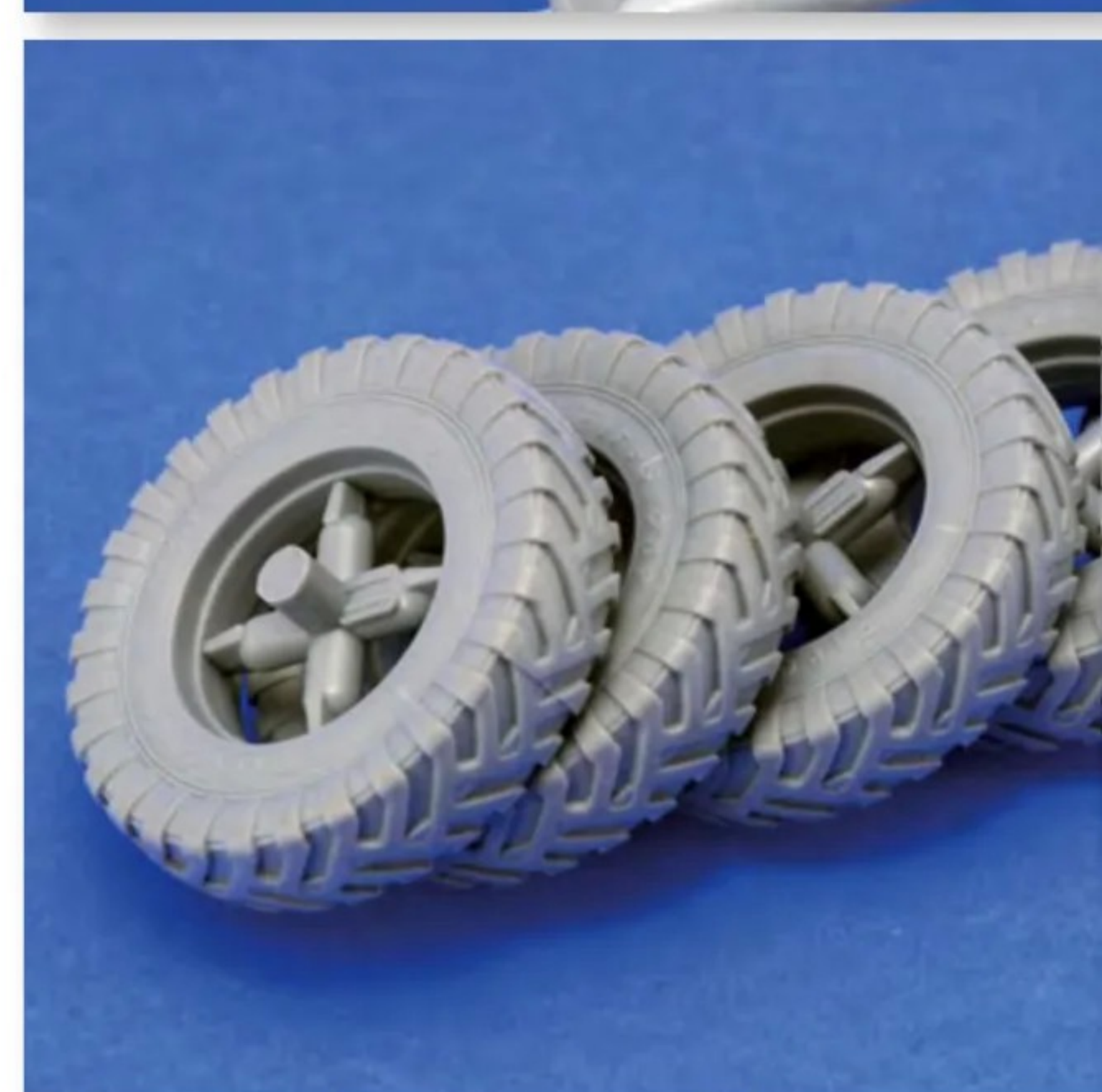
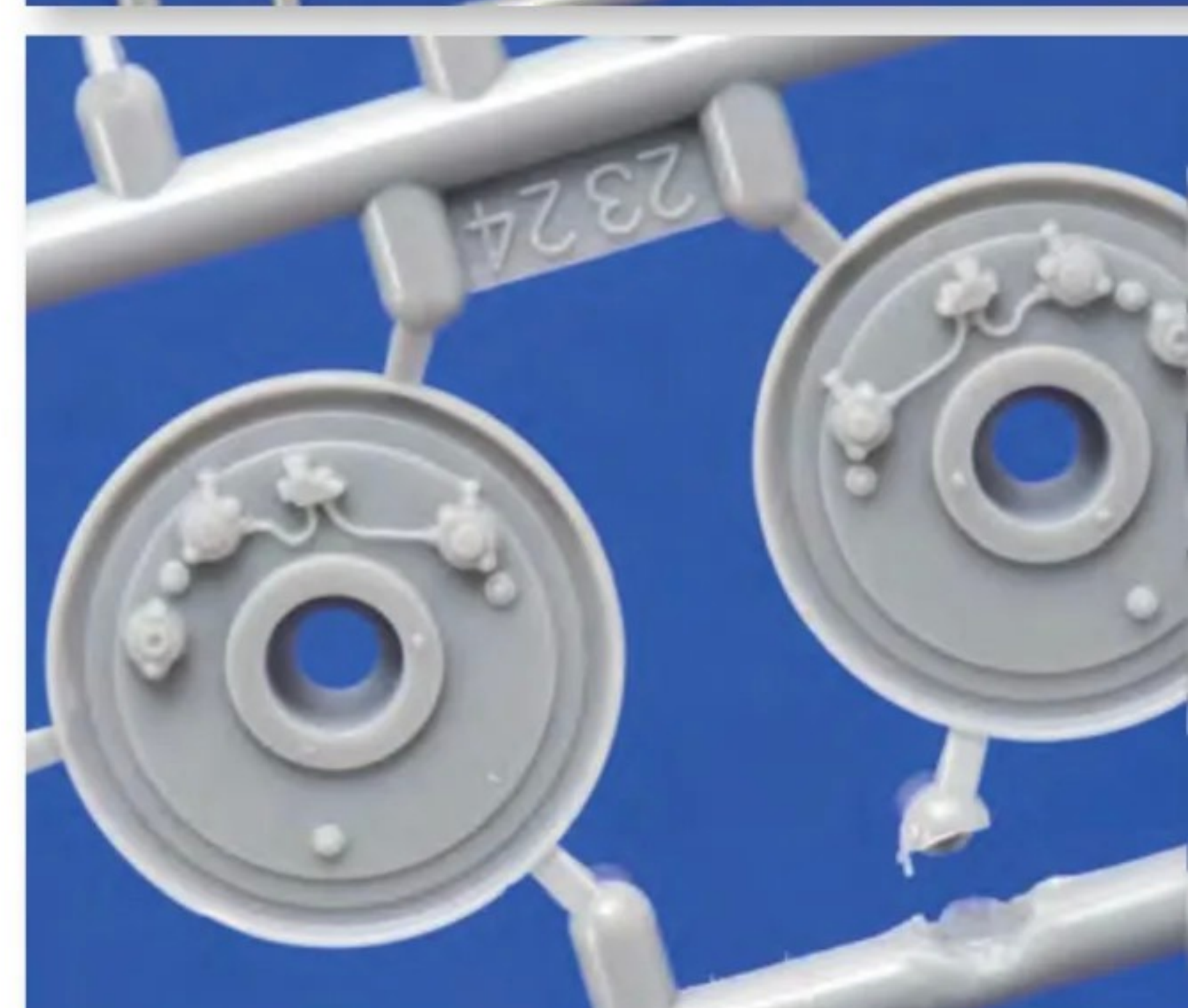
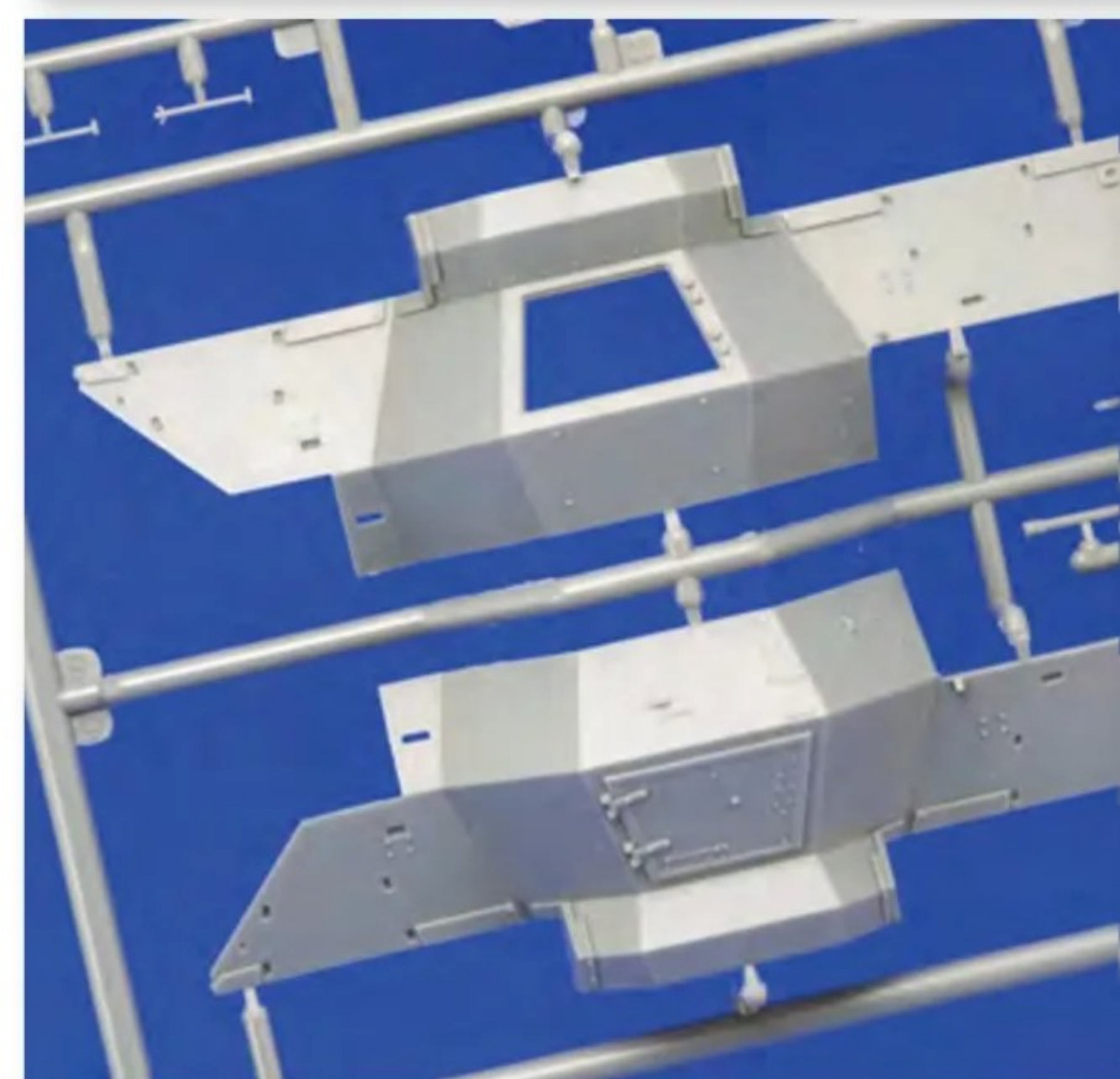
Arriving on least twenty-two sprues of grey plastic – plus five injection-moulded tyres and a sizeable fret of photo-etched brass – nobody could accuse Gecko Models' 1:35 kit of the Daimler armour car being a simplistic production! Admittedly, a good number of those sprues are bite-sized and carry just wheel hubs, rounds of ammunition and other smaller components, but it is still an 'impressive boxful of parts' as we so often say and you'll need some quality model-bench-time to complete the project.

The Daimler was a successful British armoured car design of the Second World War (that continued in service into the 1950s) that was designed for the armed reconnaissance and liaison roles. It saw action in the North African theatre of operations with the 11th Hussars and Derbyshire Yeomanry and was also deployed to north west Europe; a few examples even reached the South-East Asian theatre. Built by Birmingham Small Arms, it incorporated some of the most advanced design concepts of the time and is considered one of the best British armoured fighting vehicles of the Second World War.

Gecko Models have done a marvellous

job here and provide the modeller with a full cabin interior that includes driver's station, battery, foot-pedals and final drives, as well as full turret internals comprising a radio, ammunition storage and a complete depiction of the QF 2-Pounder main gun. By far the most daunting-looking part of the kit is the suspension and we have read that this is quite challenging to assemble; lots of test fitting will be needed we think. The moulded detail is fantastic, augmented by a plethora of photo-etched brass parts which will add that all-important touch of extra 'sharpness'. Brilliant subject with tons of fine detail, but not a quick build and some areas might be challenging. •

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04969 Airbus H145 ADAC Air Rescue, 1:32

**LEVEL 3**

03808 Airbus A380, 1:288

**LEVEL 5**

03813 Dassault Mirage 2000C, 1:48

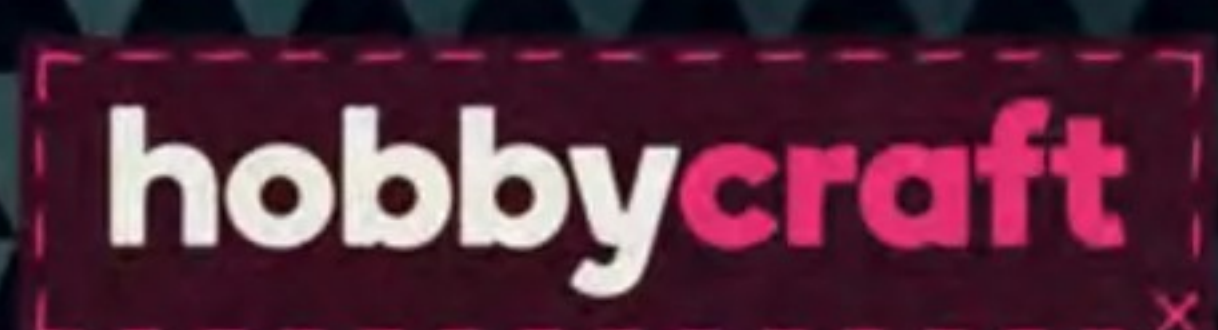
**LEVEL 2** **easy-click system**

Parts are pre-coloured, so do not have to be painted  
03653 Messerschmitt Bf109G-6 (easy-click), 1:32

**LEVEL 2** **easy-click system** **TECHNIK**

Features working lights and sound. Parts pre-coloured  
00459 Volkswagen T2 Bus (easy-click Technik), 1:24

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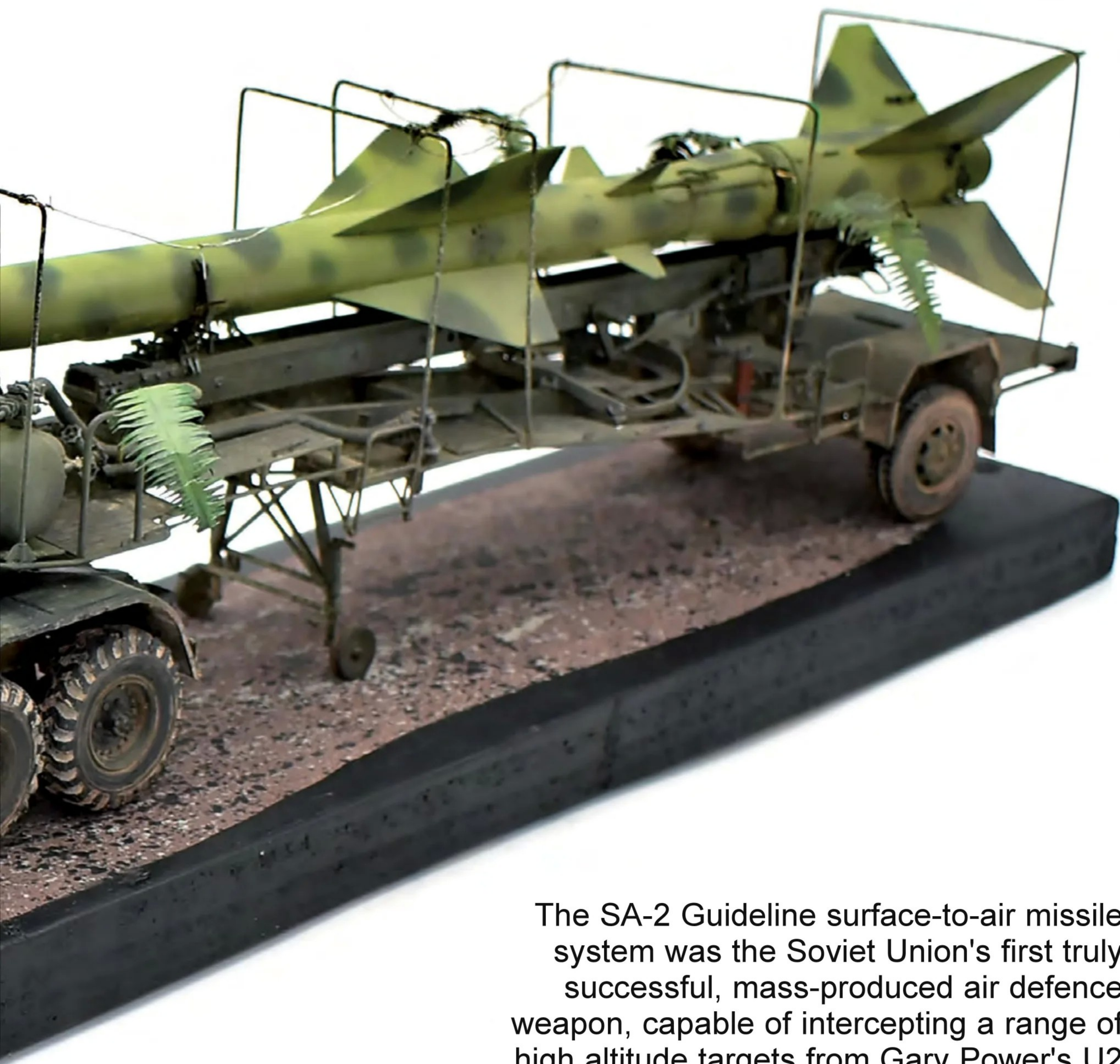
[hobbycraft.co.uk/brand/revell](http://hobbycraft.co.uk/brand/revell)



# THE FLYING TELEGRAPH POLE IN VIETNAM







The SA-2 Guideline surface-to-air missile system was the Soviet Union's first truly successful, mass-produced air defence weapon, capable of intercepting a range of high altitude targets from Gary Power's U2 spy-plane to B-52 strategic bombers over North Vietnam during the Linebacker bombing raids. **Zack Sex** brings us his take on the SA-2 or S-75 Dvina in North Vietnamese service during that nation's 10,000-day war...



As early as I can remember I have wanted to build an SA-2 in transport mode on its trailer, being towed by the famous Zil-157 truck. It all started decades ago when, as a schoolboy, I got my hands on a tattered Airfix catalogue. The box artworks were incredible, depicting all manner of derring-do, from tanks tearing across the North African desert to Spitfires and Messerschmitts and shining B29s carpet bombing Japan. It was one or two particular models that really caught my eye: a double kit with a Chinese MiG-21F and Cessna O2 and best of all, the atmospheric box art of an Egyptian SA-2 missile on its trailer being transported across the Sinai in the searing desert sun. This was the Holy Grail but I never managed to come across one until very recently in Paul Walsh's model shop in Dublin. Gingerly lifting the lid on the 1:72 kit, I realised I hadn't missed much.

It was probably the photos of captured Egyptian examples after the Yom Kippur War that had piqued my desire to build this combination, but it was also the technical details of this early Soviet SAM that interested me. The SA-2/S-75 evolution created nine different variants and twenty-three sub-variants. At ten metres in length it's little wonder it was called the 'Flying Telegraph Pole' by US pilots. These missiles were fired in salvos, with the rear solid fuel booster – according to Jason Belgrave at the Australian Armour Museum – falling away after burning for up to five seconds and getting the projectile airborne. Then, the liquid-fuel front section takes over, hurling the missile into the heavens. By this point, if it doesn't detect a target, it will self destruct after 115 seconds.

The effective range is anywhere between twenty to twenty-seven kilometres, depending on variants. This translates into a combat ceiling of between 65,000 feet for early models and 80,000 feet for later variants. In interception mode the SA-2 is capable of speeds of Mach 3.5: the equivalent of 4,300kph and can hold this speed for about twenty-two seconds, giving an idea of the high speed and limited time in which the interception takes place. The SA-2 took part in numerous wars, including the Arab-Israeli conflicts, Iran Iraq War, Indo-Pakistan conflict. It was modified and used in the ground-to-ground role by the Serbs and more recently by the Houthis in Yemen against Saudi Arabia.

With all of this in mind, Paul Walsh (the proprietor of All Models and a regular 'Arthur Daley' of the Dublin model-dealing scene) suggested a Trumpeter 1:35 offering he had due into the shop. The kit in question was actually the Chinese HQ-2 copy of the Russian system, complete with a Chinese Jiefang CA-30 (a copy of the Zil-157). The Chinese Zil is essentially the same but the grille on the front of the truck has horizontal bars, rather than vertical bars on the Soviet original. As the North Vietnamese used both Chinese Jiefangs and Soviet Zils I decided this option would be fine. Trumpeter produce both the Chinese and Soviet versions of the kit, along with the Guideline on its static launcher, which can be built on a simple base or perhaps for modellers of esoterica, mounted atop a Cuban T-55 tank hull. But more on that at a later date... ➤



Front three-quarter view of the Chinese-Communist copy of the Zil-157 tractor unit. The Jiefang CA-30 differs from the original Soviet variant, the give away is the Chinese use of horizontal grill rather than vertical grill frame



Rear three-quarter view of the Jiefang CA-30 showing a little Dremeling and the wooden box covering the left hand side diesel fuel tank



The Jiefang CA-30 with bamboo lattice. This structure is made from real bamboo shoots wired and superglued together. The foil pole stands and frame are based on actually reference shots from a Vietnamese Ho Chi Minh museum



Over the bamboo lattice I then placed a PVA-soaked industrial blue roll which I found could take a bit of handling without tearing or falling apart like standard tissue



Over the dried and sized blue roll, I super glued dried out garden weed roots. These proved to be firm and wiry and fixed easily to the PVA-coated tissue. The superglued roots acted as branches on to which I could now apply cut out mini-leaves with a tweezers and PVA. Also of note is the exposed engine and tow cable and hook hanging from the front bumper



A clear shot of the driver's cab interior showing the dumps and dents Dremeled into the Trumpeter seats, plus the piping I added with stretched sprue. Also on note is the PPSH-43 machine gun on the passenger's seat, a popular weapon in the Vietnamese wars



Having added the jungle lattice and painting the interior cab and engine bay, all that remained was to mask various elements with a mix of masking tape and Wilder 'Sticky TakK'. The windows were taped over, some tissue pressed into the engine bay and the road lights had some Wilder TakK applied over the lenses





### ◀ THREE-IN-ONE SPECIAL...

Upon opening the large box, one is confronted by a sea of dark green plastic and the grey missile parts. It's a relatively early kit by Trumpeter so it's moulded from slightly brittle but workable plastic, unlike their very early, waxy T-54s, T-55s and Type 69s. Construction is not overly complicated but takes a bit of careful attention to assemble the Jiefang CA-30 truck unit, PR11M missile trailer and SA-2 missile correctly. Extra wiring and tubing around the missile fuel tank on the trailer is necessary, particularly if you are constructing a clean variant without foliage and wiring as added here on this North Vietnamese variant.

The truck cabin required a bit of internal detail including beading along the seat edges. At this point it's also worth noting I painted the cab interior and engine bay, along with adding a pressed-metal PPSH-43 and seat belt, none of which is visible but I know it's there. On the outside of vehicle I removed the engine bonnet covers and the righthand side light-guard. I then proceeded to give the whole cab and bonnet of the truck unit a random 'Dremeling' to create the sense of a well worn and battered pressed-metal structure. I also added a broken winch cable and some mini light-fittings. I now proceeded to attend to the section of this project that was going to make or break the whole thing...

### THE LEAF CANOPY

Having examined reference shots of Zils taken recently in a museum in Vietnam plus actual vintage shots taken during the war, I began carefully, nervous of wrecking the kit with an out-of-scale rendition of the real thing or just producing something that didn't fit seamlessly with the truck structure. For me, this addition had to look if it belonged on the top of the truck's cab.

The first thing to do was to construct a bamboo frame work over the CA-30 cab. The thin bamboo canes came from my parents' garden and were ones my mother – who is a botanical artist – had painted for a bamboo importer and grower in Ireland, so I felt I had the authentic product to work with. The framework was superglued together but that didn't hold up very well, so some wire and string was added at various stages to strengthen the structure, as well as adding a realistic look to its appearance. Some foil stands were added to the bottom of the poles, mimicking the holders in the museum reference photos. Over this bamboo structure I placed a piece of blue hand-cleaning roll, you know that heavy industrial type, which was soaked in a mixture of water-diluted PVA and because it's fairly strong could be moved around a bit till it looked the part, even though none of it would be visible later.

### MINI OAK LEAVES

The next step involved taking dry weed roots from the garden, the smaller the better. These were superglued to the bamboo and tissue cover and left to dry. In the meantime I took oak leaves from the garden and cut out 'mini leaves' with a cutter. These were then glued on to the ends of multiple weed roots with PVA



Having suitably masked off the CA-30 tractor unit, it was time to get on with some painting, the first step was to prime the lot in Tamiya Semi-Gloss Black X-18, avoiding as much as possible spraying the leafy lattice



Over the Tamiya black primer coat, we now applied Tamiya XF-67 NATO Green. This suited nicely as a base-coat for the layers to follow later. Of note is the bamboo door protection, the paint on which is removed later to expose the bamboo colour beneath.



Over the XF-67 NATO Green we applied Tamiya XF-21 Sky to give the truck more colours or hues of green as one might expect in harsh jungle climate of the Ho Chi Minh trail with down pours and burning sun



A final touch for the spraying of the tractor unit involved a combination of Tamiya XF-21 Sky and Tamiya XF-3 Yellow. This would provide a good series of under tones over which to layer some oils and pigments



and a Wilder tweezers which took hours but even unpainted already kinda looked the part. On the driver's door I added two wire rails with a bunch of bamboo lengths, as seen on some Vietnamese Zils. This either added perceived crew protection from bomb fragments or were used as fascines when the truck tyres got stuck in mud on the Ho Chi Minh trail. This was repeated on the passenger's side but minus the bamboo lengths. On the driver's side I also added a wooden cover over the diesel fuel tank, which presumably gave protection from sharp branches or rocks or perhaps shell fragments that would potentially puncture the fuel tank.

The PR11M trailer got some extra attention in the form of wire frames plus some wiring that would have been used to drape camouflaged netting and hide the missile from the prying eyes of enemy aircraft. With all of these extras added, I gave Arty a shout so we could get some paint on this Chinese missile truck!

## PAINTING AND WEATHERING

The first step in this process involved masking off the CA-30 cab and engine bay. This was done with masking tape on the windows, blue roll in the cab and engine area plus Wilder Takk (a sort of Blue Tack) pressed onto the front lights. With the arrival of Arthuras Skyrius we commenced spraying. For a primer coat we applied Tamiya X-18 Semi Gloss Black which acted as an effective dark base for the Tamiya XF-67 NATO Green, which was defused with paler shades of Tamiya XF-21 Sky, mixed with the organic Tamiya XF-67. Over this we applied a further blend in spots

of XF-21 and XF-3 Flat Yellow. Some dark misting and pale greens were also randomly blasted into the foliage top cover so as pull the truck and camo cover together more in terms of overall colour composition. This created a pleasing canvas for oil colour-washes and weathering but also the major addition of artist's oil buffing later on.

The next step was to prime the SA-2 missile itself plus the PR11M trailer. The missile was sprayed in pale version of – you guessed it – XF-67 NATO Green. We do tend to use

As stated, the Tamiya Acrylic spray coating was applied and I now applied artist's oils such as sap green, which leaves a pleasing sheen and is applied generously enough with a brush and then vigorously rubbed off with some fine cotton cloth giving a patina of wear and faded paint work. A wide range of Wilder and Mig earth pigments were also applied to chassis and various parts of the vehicle for added realism

a fairly selective palette when it comes to the Tamiya colours but that's because they are really mainly used as strong colour base for oils and pigments as you shall see. The PR11M missile trailer was primed in Tamiya XF-10 Flat Brown. This was done to have a different base coat for a Soviet Green finish on the trailer so as to differentiate it from the Chinese CA-30. Having base-coated the trailer and missile, we gave this little lot a break for a week while I tracked down a few examples of camouflaged North Vietnamese SA-2s. ➤



The end result of paint effects and pigments gave the Jiefang CA-30 a finish that I was pleased with and while risky at times and parts achieved the desired result for this Ho Chi Minh trail veteran







A rear three quarter view of the Jiefang CA-30 showing the use of dust and earth pigments on the back of the vehicle, along with the use of lamp black oil paint rubbed on and off on areas such as the fifth wheel



A little still life from the past, a display of Jiefang CA-30, with driver and a selection of simple North Vietnamese medals and pin badges the author picked up on his travels in Vietnam more than twenty years ago

## CAMOUFLAGE THAT ROCKET!

The practice of camouflaging the Guideline missiles was fairly common in North Vietnam and led to some very wild 'n whacky colour schemes being applied to the SA-2s. After I'd found a few colour profiles and photos of camouflaged missiles of North Vietnamese SA-2 launchers, I picked the one I thought offered a nice contrast to the standard green finish of the vehicle and trailer but still fitted in nicely with the overall colour composition. It consisted of a warm, yellow-green base over which blotches of dark green randomly spread along the shaft of the weapon. Needless to say, Arthuras hated it and with his old Soviet conditioning wanted to paint the missile in its standard grey livery. Needless to say, I stood my ground and yellow-green with dark green blotches it was...

After drawing these out and him reluctantly spraying the missile, I gave it gentle rub of yellow and green artist's oil paint which I then rubbed nearly all away to give the missile a pleasing sheen. The same was done to the CA-30 tractor unit. I find the oil paint buffing finish creates a good finish on a lot vehicles whether imitating an semi-gloss finish on a truck or areas wear that have a nature sheen on the likes of a tank. Lastly the PR11M trailer was attacked with a mix of darkened XF-67 NATO Green which was also buffed with oil paints in spots along with raw umber and lamp black washes.

The trailer was then speckled and splashed with a selection of Mig productions and Wilder pigments such as Dried Mud and Russian Earth. The Wilder a range gives you interesting variations to earth and dust tones ➔



A North Vietnamese driver was cobbled together using Tamiya German tank commander's trousers, resin feet in sandals and a Dragon North Vietnamese torso



A rear three-quarter view of the Trumpeter SA-2 missile and PR11M trailer with one of the rear camouflage frames added



The SA-2 Guideline with its base-coat along the complete set of camouflage frame work



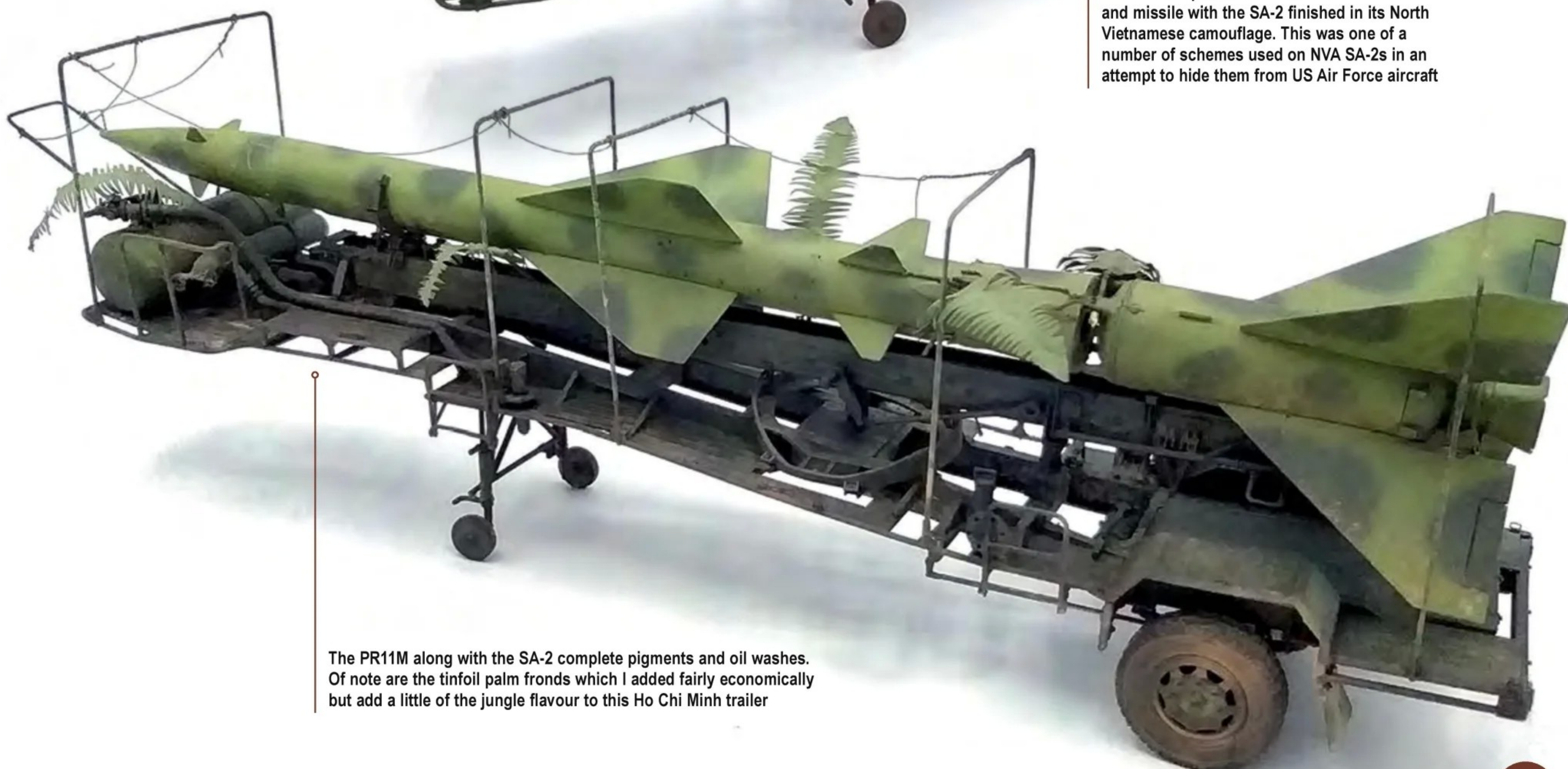
The PR11M trailer is seen here having been primed with Tamiya XF-10 Flat Brown along with some wiring connecting the camouflage frames. This wire was sourced from Spanish Rioja wine bottles...



Front three-quarters view of PR11M trailer and missile with the SA-2 finished in its North Vietnamese camouflage. This was one of a number of schemes used on NVA SA-2s in an attempt to hide them from US Air Force aircraft



The PR11M along with the SA-2 complete pigments and oil washes. Of note are the tinfoil palm fronds which I added fairly economically but add a little of the jungle flavour to this Ho Chi Minh trailer











### MODELSPEC

TRUMPETER 1:35 HQ-2 MISSILE ON  
TRANSPORT TRAILER KIT NO.00205

#### Materials:

Injection-moulded polystyrene, waterslide decals

#### Paints used:

Tamiya Acrylics: X-18 Semi Gloss Black, XF-21 Sky,  
XF-67 NATO Green, XF-3 Flat Yellow, XF-10 Flat  
Brown

#### Availability:

Trumpeter models are widely available from good  
model shops and online. UK import and distribution  
by [www.bachmann.co.uk](http://www.bachmann.co.uk)

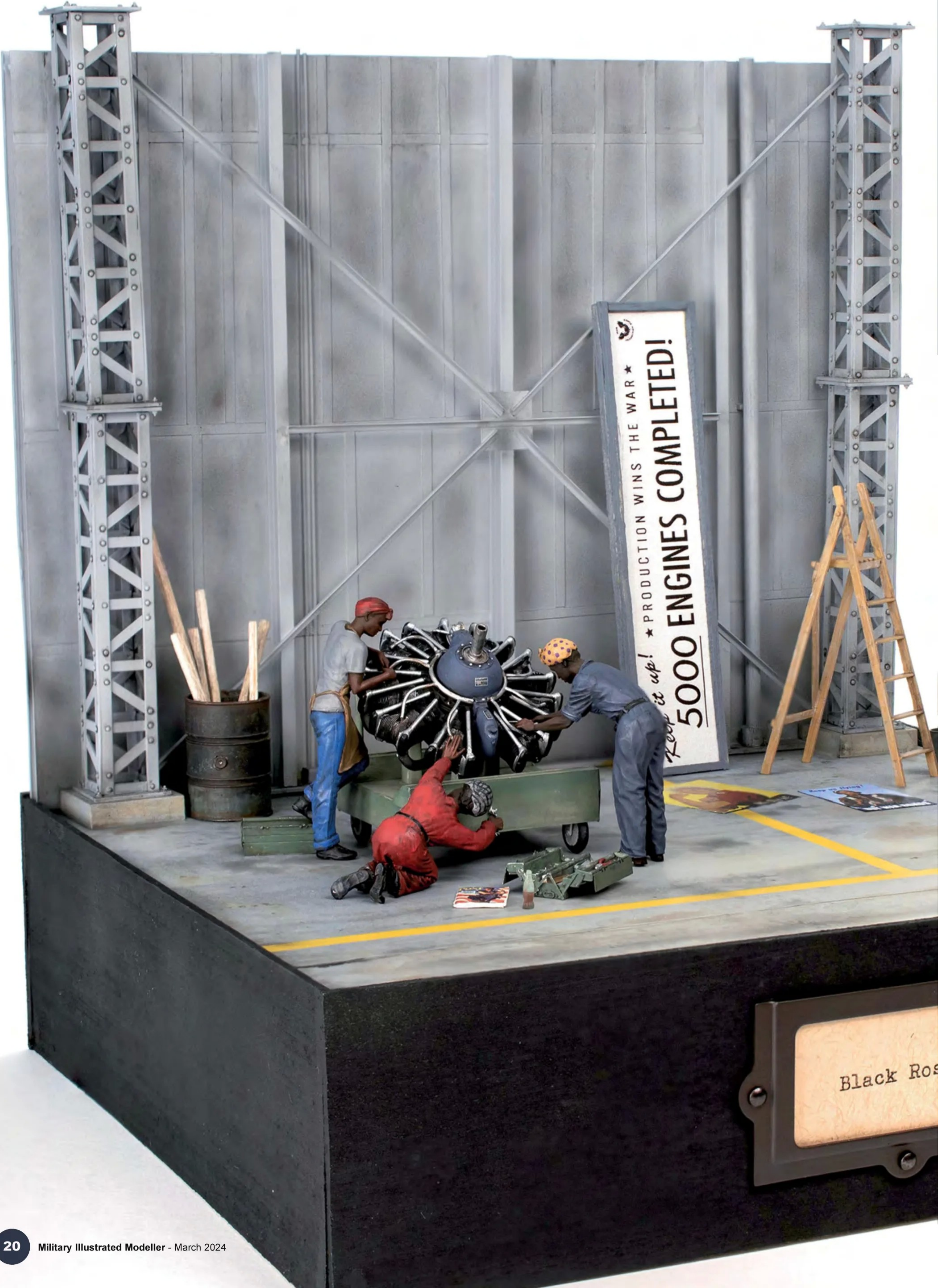
◀ but is now out of production, sadly. All in all things were beginning to turn out nicely, the addition of North Vietnamese markings which I distressed with scraps and green paint chips adding a final touch to the NVA vehicle's livery. Lastly I added a North Vietnamese figure to the composition to lend a sense of scale to the project and placed the lot on a simple wooden base painted black with a pigment section of earth speckled with acrylics.

The North Vietnamese figure was cobbled together using the legs of a Tamiya World War Two tank figure. I love the form of those oversized overalls for some reason: they suit my idea of what a jungle fighter might wear along with a pair feet in sandals (given to by Paul Kunkels, nice one Paul). The upper torso and head of a Dragon North Vietnamese figure was used, along with a new hand, AK-47 and paper strap. He seemed to fit the bill, whether standing looking out for US fighter bombers or facing into the open cab of the CA-30.

### FINAL WORD

As I finished this article I received notice of the Type 65 AA T-34 variant being produced in Vietnam in 1:35 by 3D designer Bao Nguyen, so I quickly purchased this excellent conversion. If you like the North Vietnamese SA-2 keep an eye on this space for the Vietnamese Flak 34 soon, till then happy modelling and stay safe. •







# BLACK ROSIES:

## ***FIGHTING THE WAR - AND RACISM - AT HOME***

**Daniel Buchmeier** creates an evocative scene that pays tribute to the 600,000 African American women who were involved in war-work in the USA during the Second World War

I first learned of the Black Rosies from a little documentary film called *Invisible Warriors* ([invisiblewarriorsfilm.com](http://invisiblewarriorsfilm.com)) and it inspired me to tell this story in a diorama. We all know of the “We Can Do It” poster from WWII featuring the woman with the rolled up sleeve, but many are unaware that African American women were helping win the war too.

The classic images of Rosie the Riveter depict white women, but Professor Gregory Cooke, creator of the documentary *Invisible Warriors*, has unearthed the lesser known stories that represent 600,000 black women who also joined the workforce. They excelled in their jobs against even greater barriers:

***“Black women were mechanics, riveters, welders, carpenters, sheet metal workers and there were even some in Washington who did code-breaking. They were basically fighting the war, racism and gender discrimination all at once.” ➤***







## BOEING BREAKS THE COLOUR BARRIER

During WWII, there were approximately 600,000 'Black Rosies' in the United States during the conflict throughout the country, mostly in aerospace at companies like Boeing. The first two African American people hired by Boeing were Florise Spearman and Dorothy West Williams. Spearman was hired in January 1942 as a stenographer and Williams was hired in April 1942 as the first black production worker. Boeing hired the 'Black Rosies' to build bombers for the war effort. The hiring occurred more than nine months after a presidential order banning discrimination at defence companies. The first group of black workers to work for Boeing came to Seattle in 1943. The National Youth Administration brought them to the city.

## THE DIORAMA

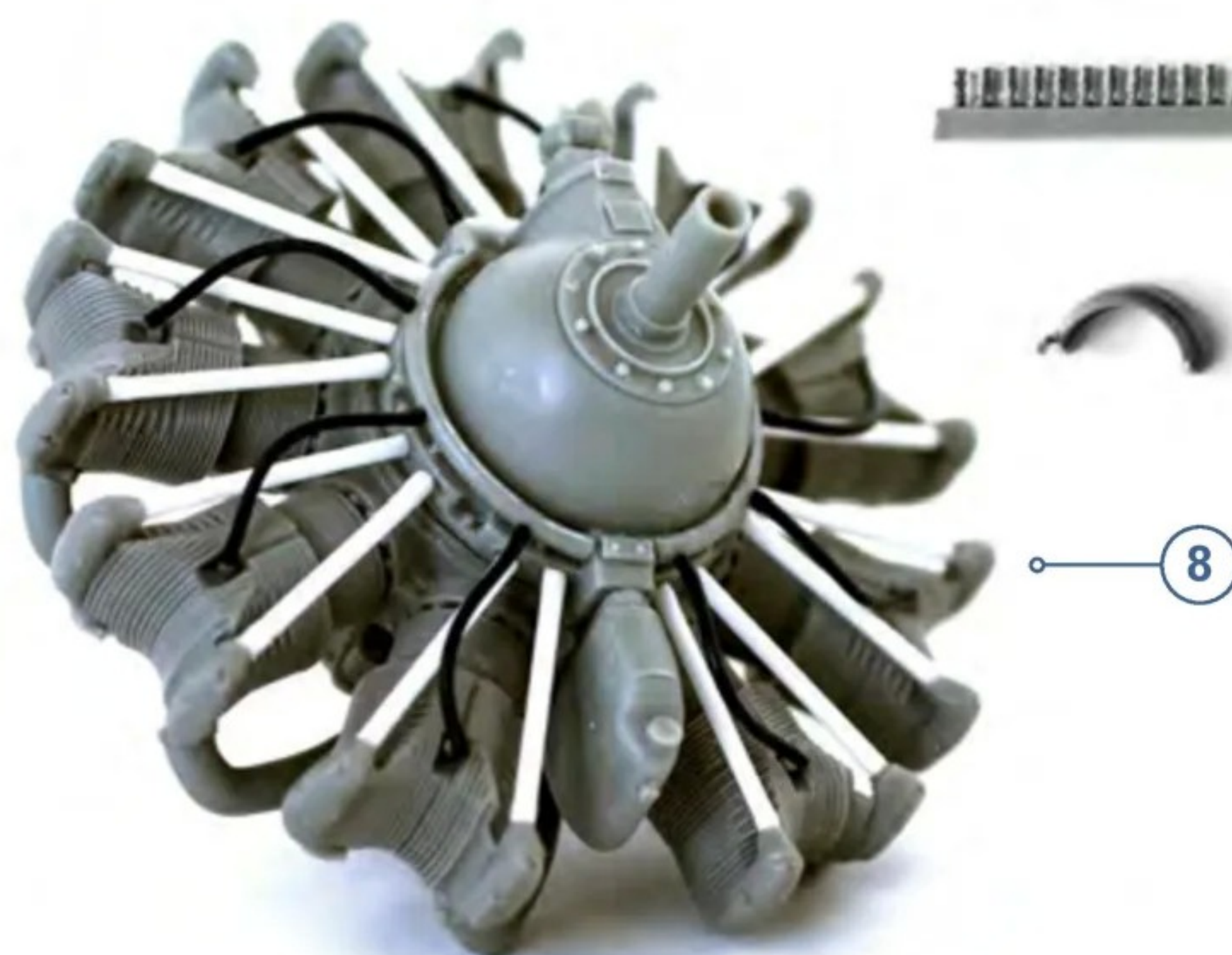
As for many of my dioramas, finding the exact figure sets to tell the story I want to tell can be a challenge: there are no female African American mechanic figures on the market. While there are a few mechanics sets available in 1:35, the majority of them are men, unless I wanted super sexy mechanics, in which case there are plenty to choose from (eye roll). As usual, I would have to get creative and make my own figures. I found a resin mechanics set on eBay (manufacturer unknown) that I could retrofit the male figures into females. I went so far as to add hips and breasts to the figures using Magic Sculpt.

I used male African American heads from Hornet and added hair and head scarfs, again with Magic Sculpt, my first time ever doing such a thing (pics 1, 2, 3, 4). There

were only two usable figures in the resin set and I needed at least a third. The obvious choice for me was to commission a 3D-printed figure by my friend Le Xuan Giang, with whom I have collaborated on other figures for my dioramas 'Freedom's Embrace', 'Never Forget' and 'Comfort Women'. I gave specific direction and photo reference to Le and once again he sculpted a perfect figure: it is the one wearing the smock with her foot on the toolbox (pics 5, 6). For painting schemes, there was no shortage of reference photos of Rosies dressed in proper attire including individualized coveralls, head scarfs and shoes. My gals were starting to look the part!



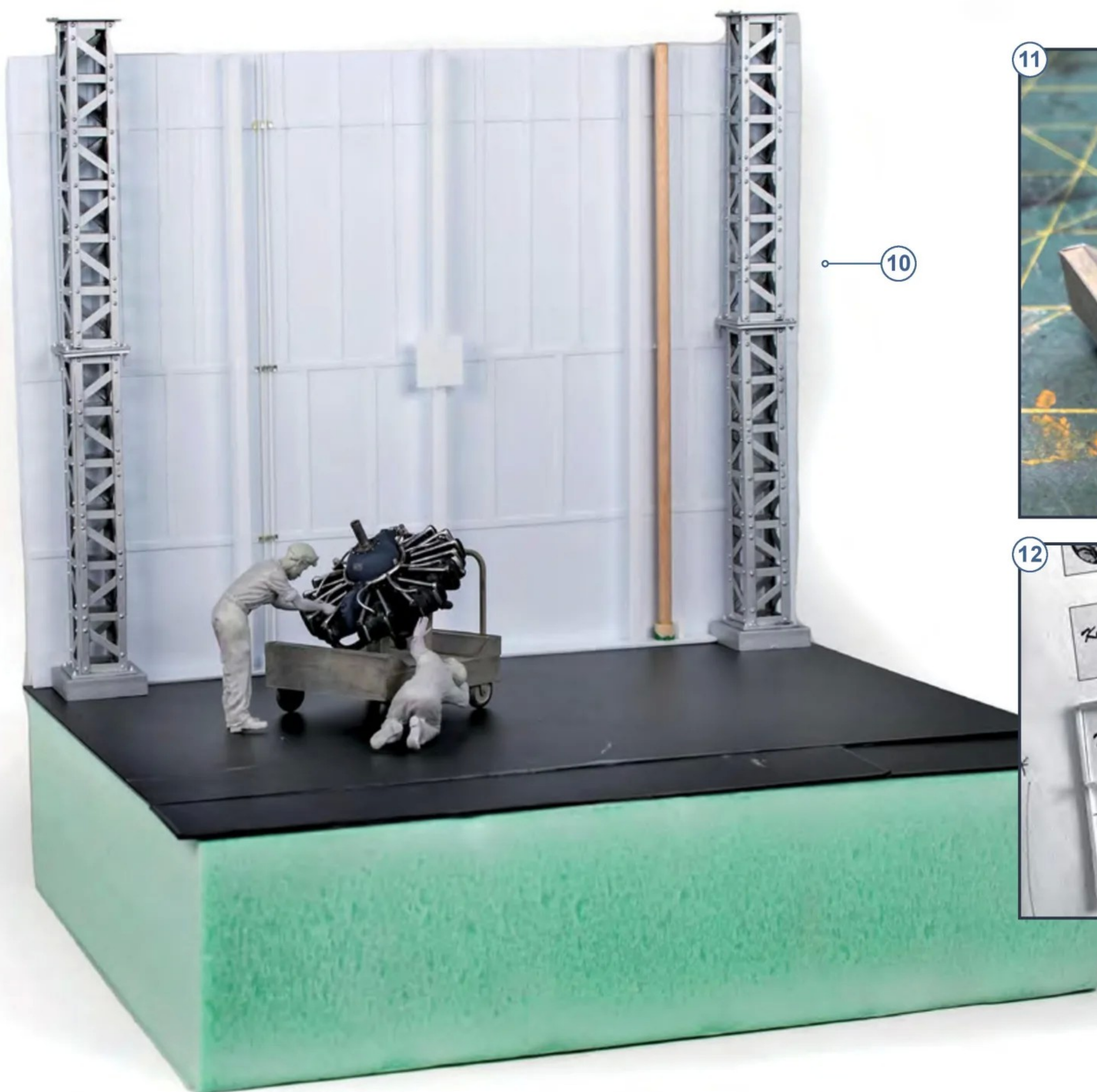




### RADIAL IN 1:35?

Finding a good quality R-1820 radial engine proved to be another challenge as no one (that I could find) makes a 1:35 scale R-1820 radial engine to match the scale of the diorama. I did an extensive internet search, but no dice. So in the hope that no one would make too big a fuss about the difference in scale, I bought a 1:32 scale resin engine from Vector Resin. It is pretty basic and I had to use my best deciphering abilities to build it with the vague instruction sheet. After getting over my disappointment with the engine kit, I added as many extra details as my skill level would allow (pics 7, 8, 9). If only I was Norbert Scholte! ➔



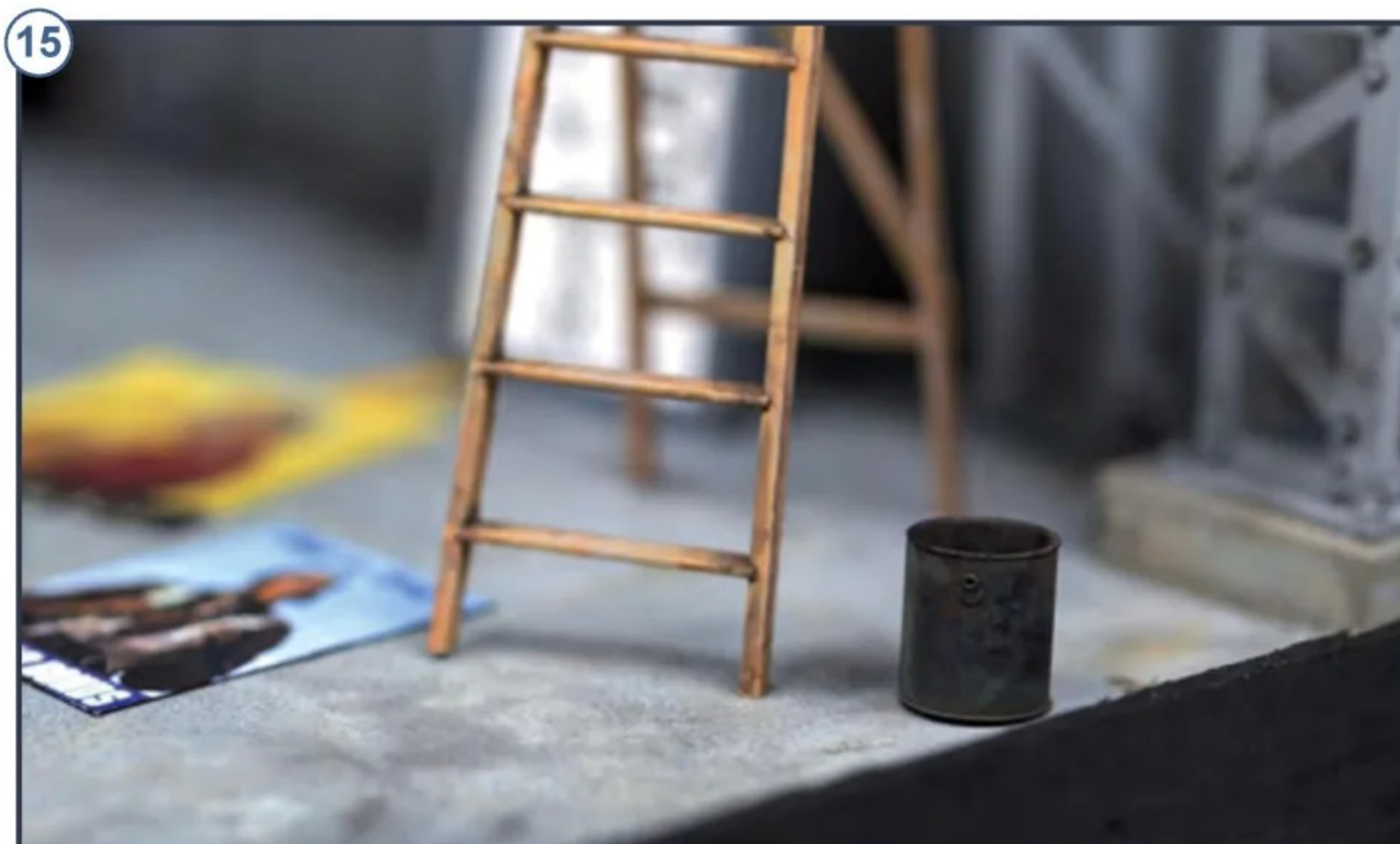


For the factory setting, I built the back wall from scratch with styrene sheets, strip and rod, I-beams and L-brackets. The girders are from a MiniArt light post set (pic 10). I scratchbuilt the engine cart from styrene and wheels from a MiniArt scaffolding kit (pic 11). For the concrete floor, I used sheet styrene painted with grey primer, then modelled a texture with colour-washes of grey, black and brown. I laid down the yellow work area lines with an airbrush after masking with low tack sticky notes.

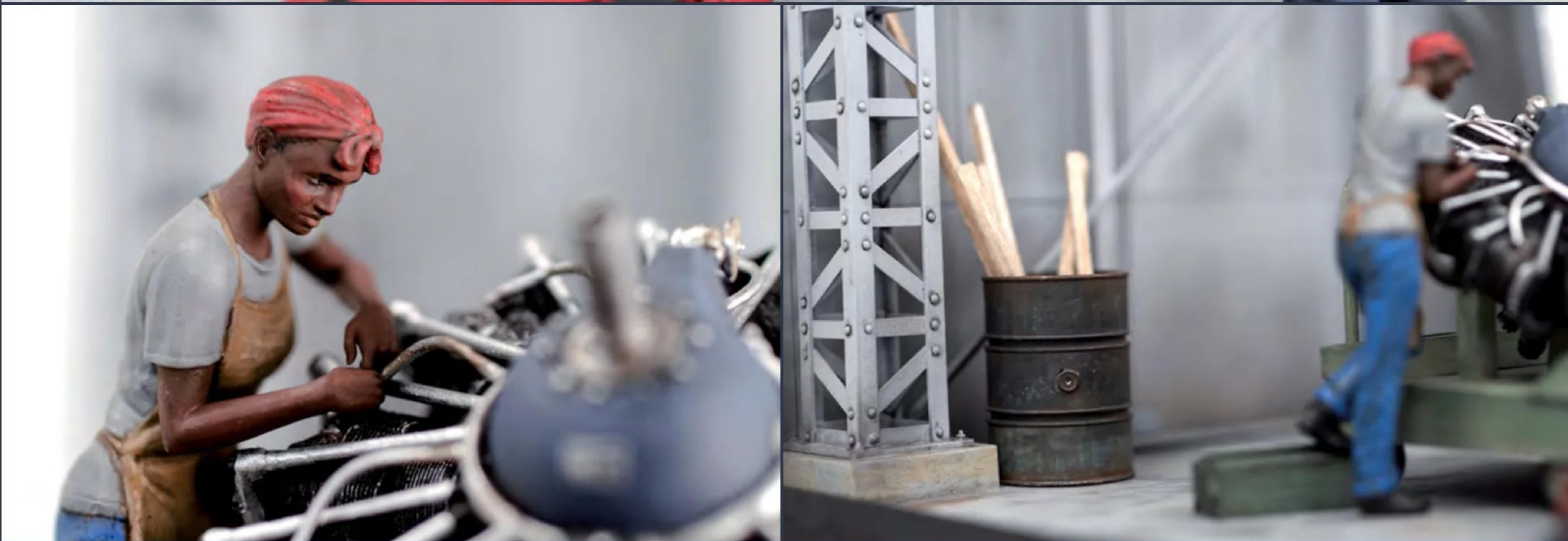
### MISSING ELEMENT

After what felt like an already overly laborious build, I thought I was finished with just the figures in place with the engine, but a few colleagues mentioned that it felt incomplete. And deep down, I knew it too. Jesse Naughton

suggested a sign of some sort to show the Black Rosies accomplishments, so I made the '5000 Engines Completed' sign in design software and put it in a basswood frame, painted and weathered it (pic 12). I wanted to hang the sign somehow, but opted for just leaning it against the wall like it was about to be hung up. Still, the diorama felt empty and lacked story elements. Another colleague suggested adding another figure to fill out the scene. I was energized by the recommendations as I didn't want to sell this story short. I came across an old man holding a rake in a MiniArt kit and thought that would be a great addition to show cultural diversity in the story. I converted the rake to a broom which makes a good metaphor for sweeping away old ways of thinking (pic 13).







### FOR THE FINAL TOUCHES...

I found a poster featuring the African American aviator as a reminder that there were black men fighting the war too. And while it doesn't fit the time frame, I added the 'We Did It' poster (illustrated by ReGina Cooke for the Invisible Warriors documentary) to work as a visual queue that these Rosies were just as important as the white Rosies (pic 14). They are placed on the floor soon to be hung with pride near the sign as good motivation for a job well done. To add to the Americana, I included a Coke bottle. As a way to pay homage to all the other Rosies, a copy of

Norman Rockwell's Saturday Evening Post sits neatly on the floor.

You may notice a few additional subtle metaphors within the piece... The ladder (from MiniArt) communicates the upward mobility that African American women (and men) were achieving by breaking racial stereotypes and aiding to the victory in WWII (pic 15) and the female figures are painted a mix of red, white and blue to convey that they are all part of the American story. Thank you to the friends and colleagues who pushed me to tell a better story during a period of personal reflection. This one is for all the underdogs. •







Post-war, we see Black Rosies at rest.  
'Josie the Riveter' is on the right



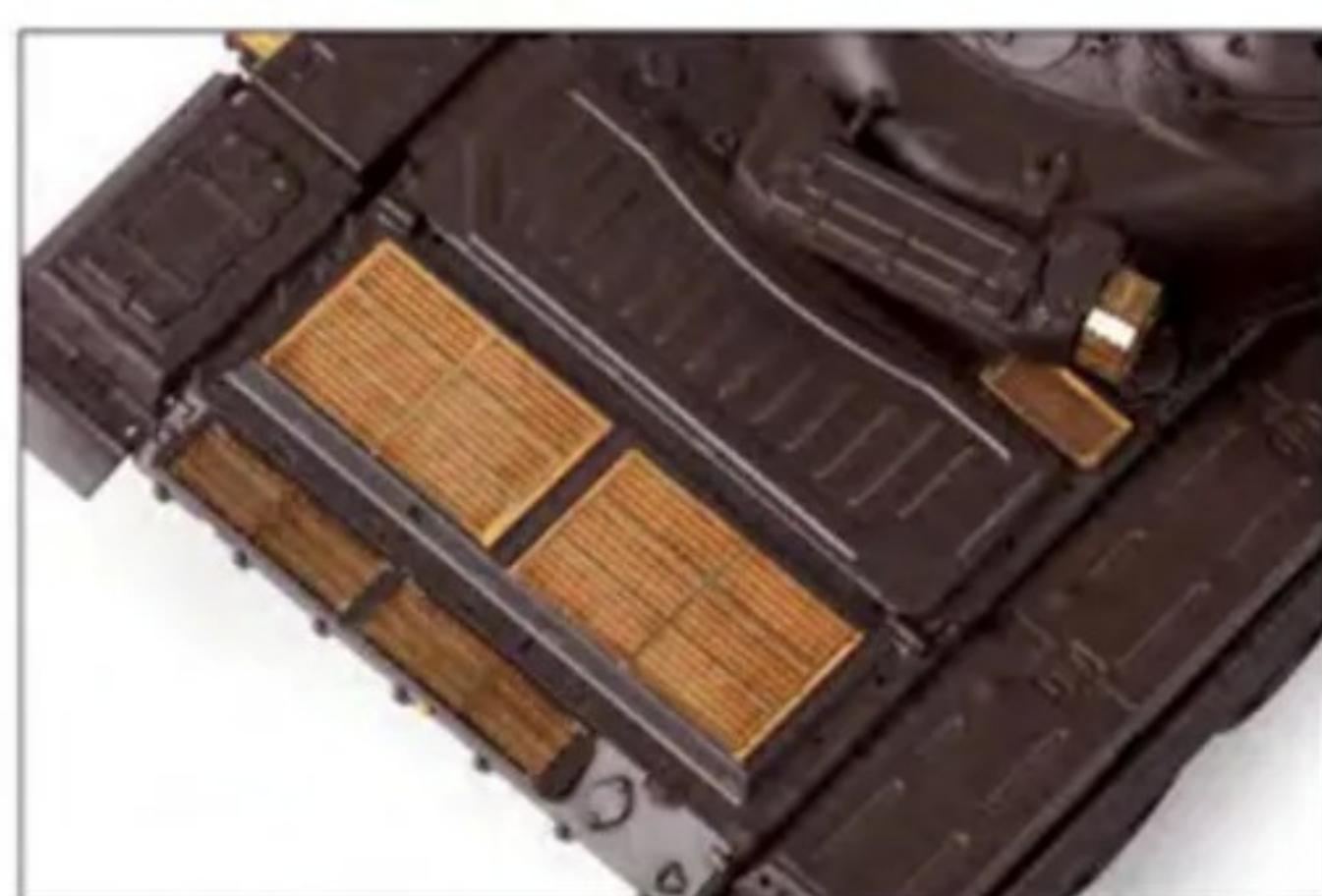
British-American modeller Martin Drayton:

*“Just incredible. Thank you for shining a light onto the thankless task that these women undertook. When we think about the ‘Double Victory’ campaign, we normally only think of Black military personnel. These women fought for the same victory, thanks for honouring them. I think you should eventually offer this to the Museum of Black History in Washington, for them to display!”*





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**FULL-BUILD: WORLD WAR TWO ALLIED DIORAMA**

TAMIYA 1:35 JEEP WILLYS MB • KIT NO. 35219

TAMIYA 1:35 US M8 LIGHT ARMoured CAR GREYHOUND • KIT NO. 35228







# GAME OVER

## BATTLE OF THE BULGE

**Javier Redondo** creates a compact but effective diorama depicting a scene from the Ardennes offensive: the Battle of the Bulge

**B**y December 24th 1944, the German advance was definitively stopped near the Meuse river, failing the main objective of their offensive. That same day, General Von Manteuffel requested to stop operations and withdraw troops to the western wall. Hitler strongly rejected it. In the south, Patton's Third Army advanced unstoppably to liberate Bastogne. At 16:50 on December 26th, armour from Company D of the 37th Tank Battalion of the 4th Armored Division finally broke the siege. Most of the German forces managed to retreat fighting and escape the pincer that threatened them, but the critical lack of fuel forced them to abandon most of their armour.

On January 7th 1945, Hitler finally authorised the withdrawal of all forces, ending all offensive operations. Violent fighting continued over the next three weeks. Saint-Vith was liberated on 23rd January and the last German units taking part in the offensive returned to their initial starting point on 25th

January. For Nazi Germany, the failure of the Ardennes offensive was decisive, accelerating the end of the war on the Western Front. While the Allies still possessed enormous reserves of men and material, Germany had exhausted its last reserves and never regained the strategic initiative. Photographs and films taken by war reporters during the battle show exhausted German soldiers surrendering in the final stages of the battle. The scene of this work represents elements of the US Second Armored Division who fought the German Fifth Panzer Army during the battle and later helped clear the area from Houffalize to the Ourte River of enemies. I started with the vehicles, using the Tamiya Jeep to which I added armour plates with the help of Eduard's specific photo-etched set plus some other improvements. I also used the model that Tamiya offers US dedicated to this beautiful wheeled armoured vehicle, the M8 Greyhound. For its detailing I used a specific Aber photo-etched set plus wheels from the sadly extinct Verlinden Productions brand. •



**FULL-BUILD: WORLD WAR TWO ALLIED DIORAMA**  
TAMIYA 1:35 JEEP WILLYS MB • KIT NO. 35219  
TAMIYA 1:35 US M8 LIGHT ARMoured CAR GREYHOUND • KIT NO. 35228



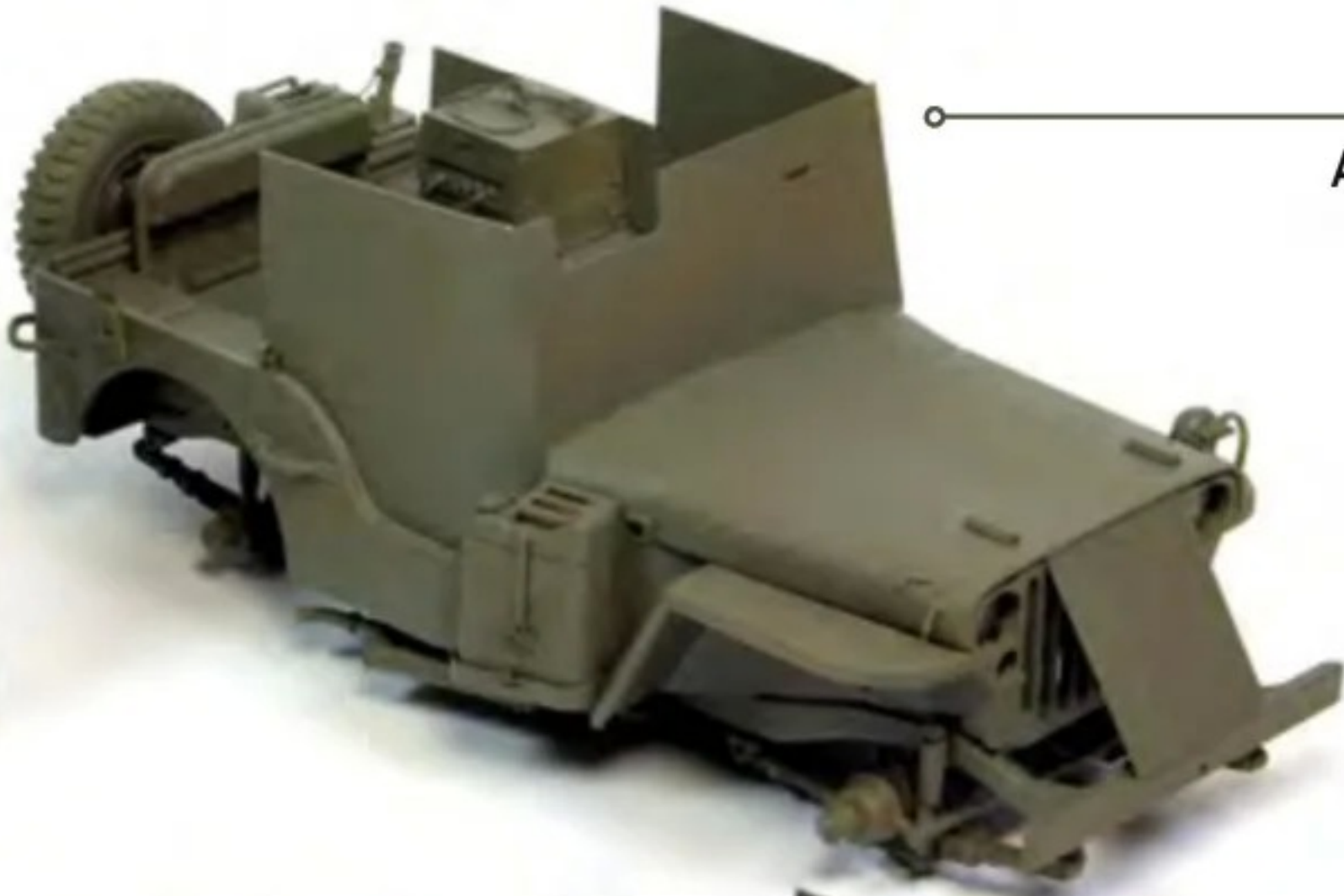
I replaced the front wheels with new items in resin from Panzer Art that include the snow chains



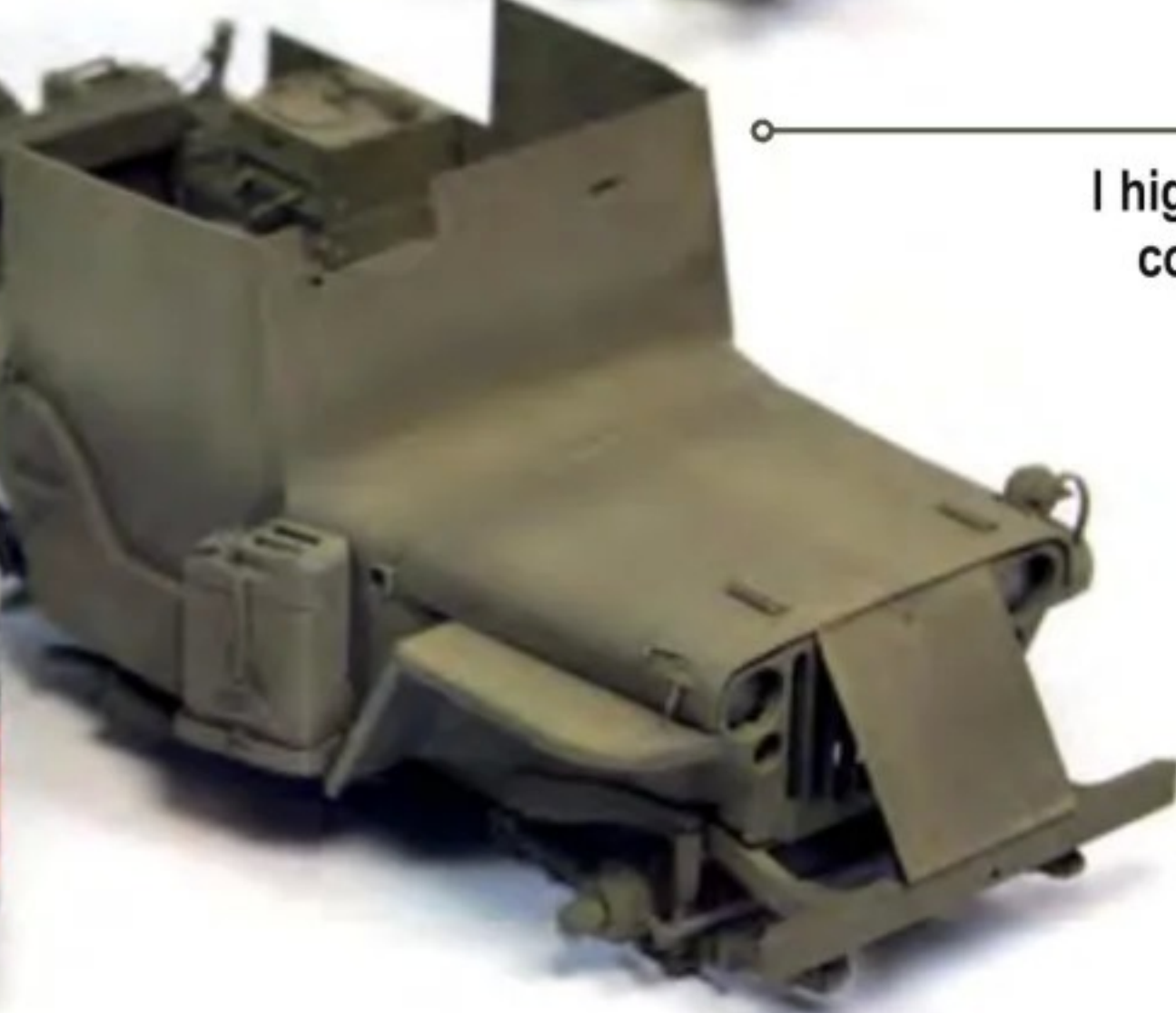
I added the driver's pedals, which the model surprisingly omits, using plastic and photo-etched parts



The assembled model awaits painting and weathering



After washing with soapy water to remove any dirt from the assembly phases, I airbrushed a base coat of olive drab



I highlighted the previous colour with Dark Yellow also with an airbrush



To reproduce the winter camouflage, I begin by spraying the entire exterior surface of the Jeep with hairspray, then with the airbrush I applied a thin layer of diluted white acrylic on the exterior surfaces of the vehicle



After a few minutes I moistened the surface with warm water and rubbed with a stiff-haired brush to remove areas of colour. Scratches can also be imitated with a sharp toothpick by drawing the tip over the whitewashed surface



I painted a red cross on the fuel can, a distinctive symbol that served to differentiate the respective contents

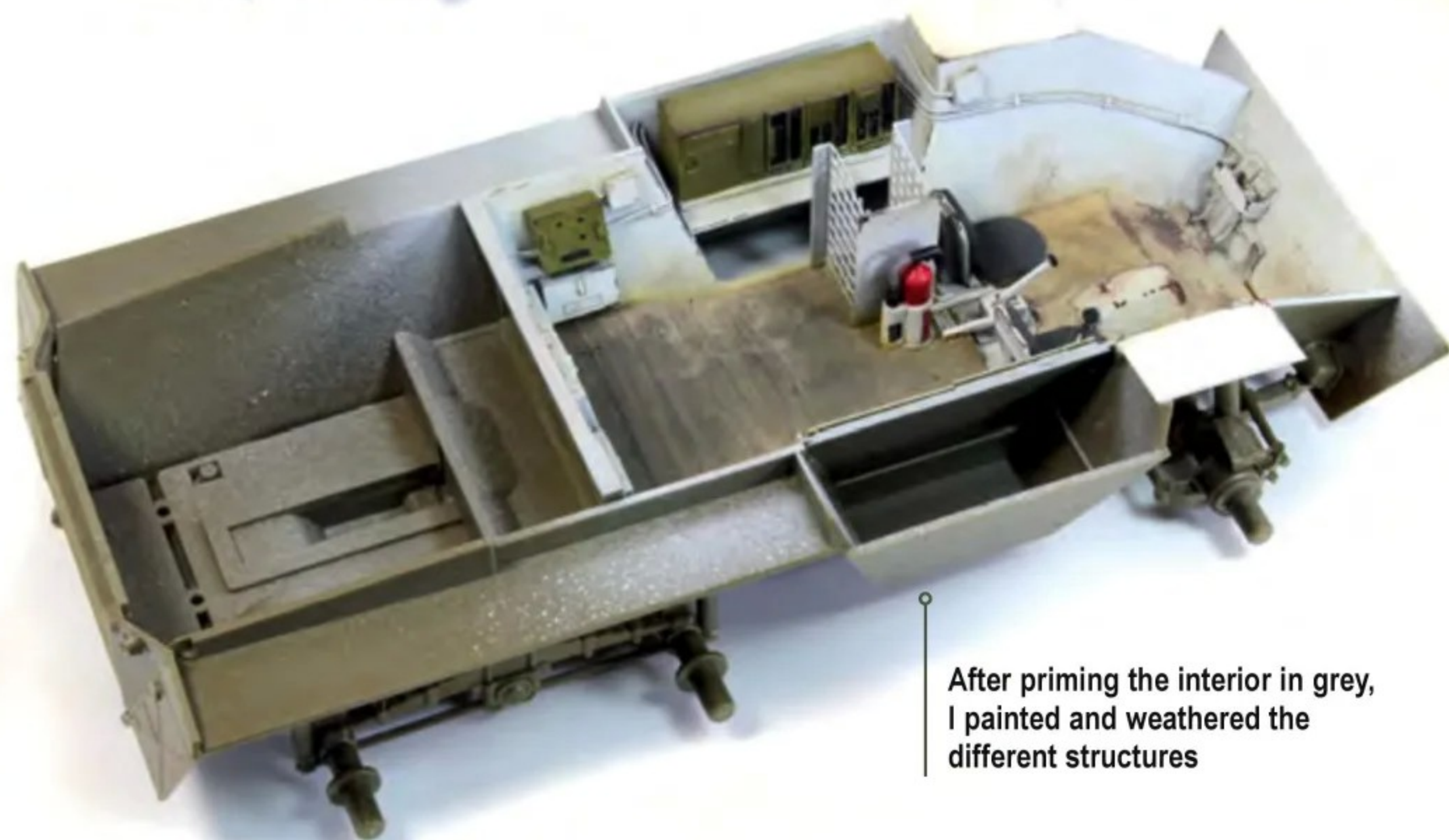
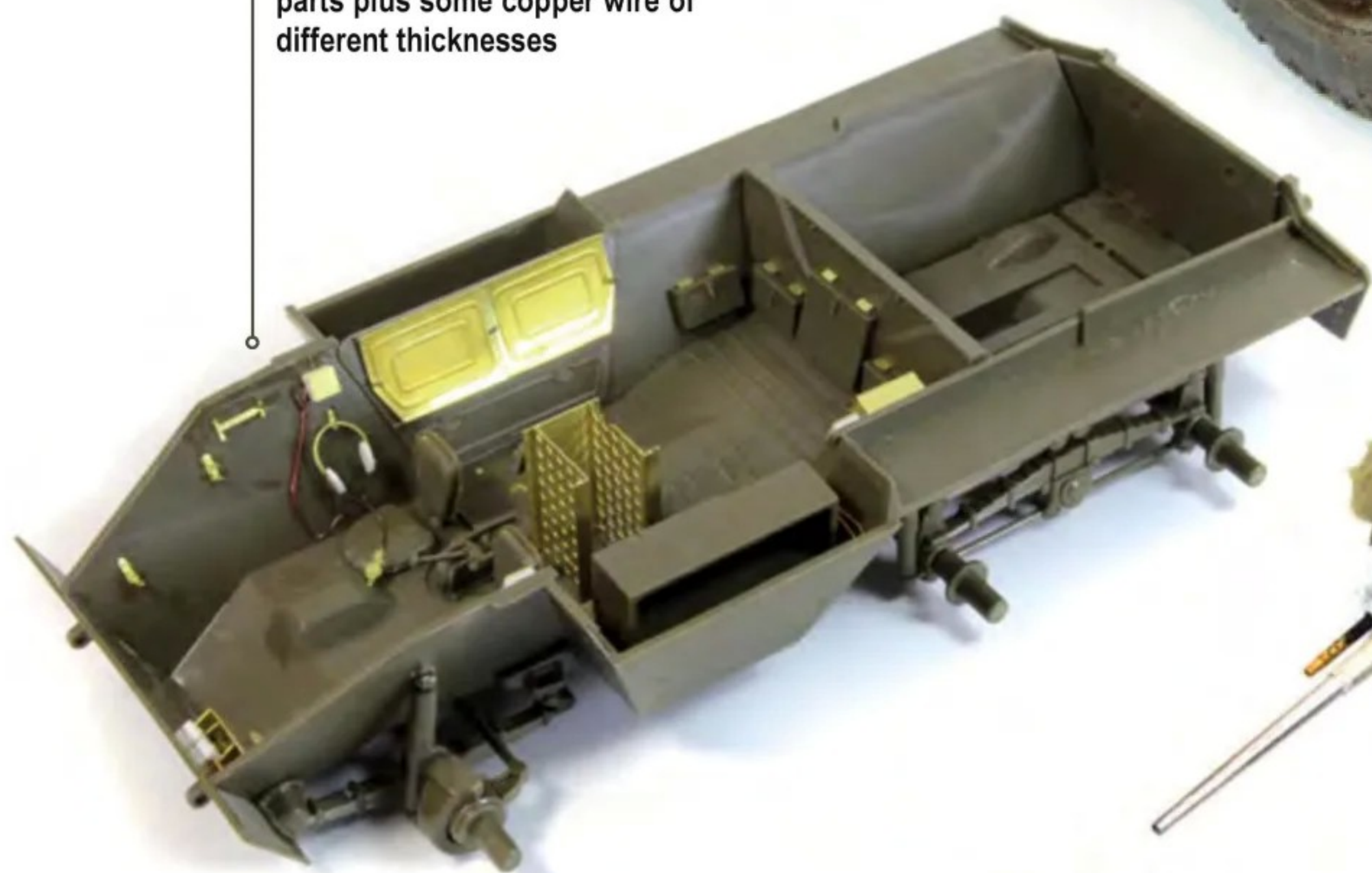


With a graphite pencil I reproduced the polished areas of the metal



The finished Jeep, ready for the diorama

I began by detailing the interior of the vehicle with the help of photo-etched parts plus some copper wire of different thicknesses



After priming the interior in grey, I painted and weathered the different structures



Once the interior was finished, I mated the two halves of the hull and continued assembling and detailing the exterior parts of the hull, the turret and wheels





## FULL-BUILD: WORLD WAR TWO ALLIED DIORAMA

TAMIYA 1:35 JEEP WILLYS MB • KIT NO. 35219

TAMIYA 1:35 US M8 LIGHT ARMoured CAR GREYHOUND • KIT NO. 35228

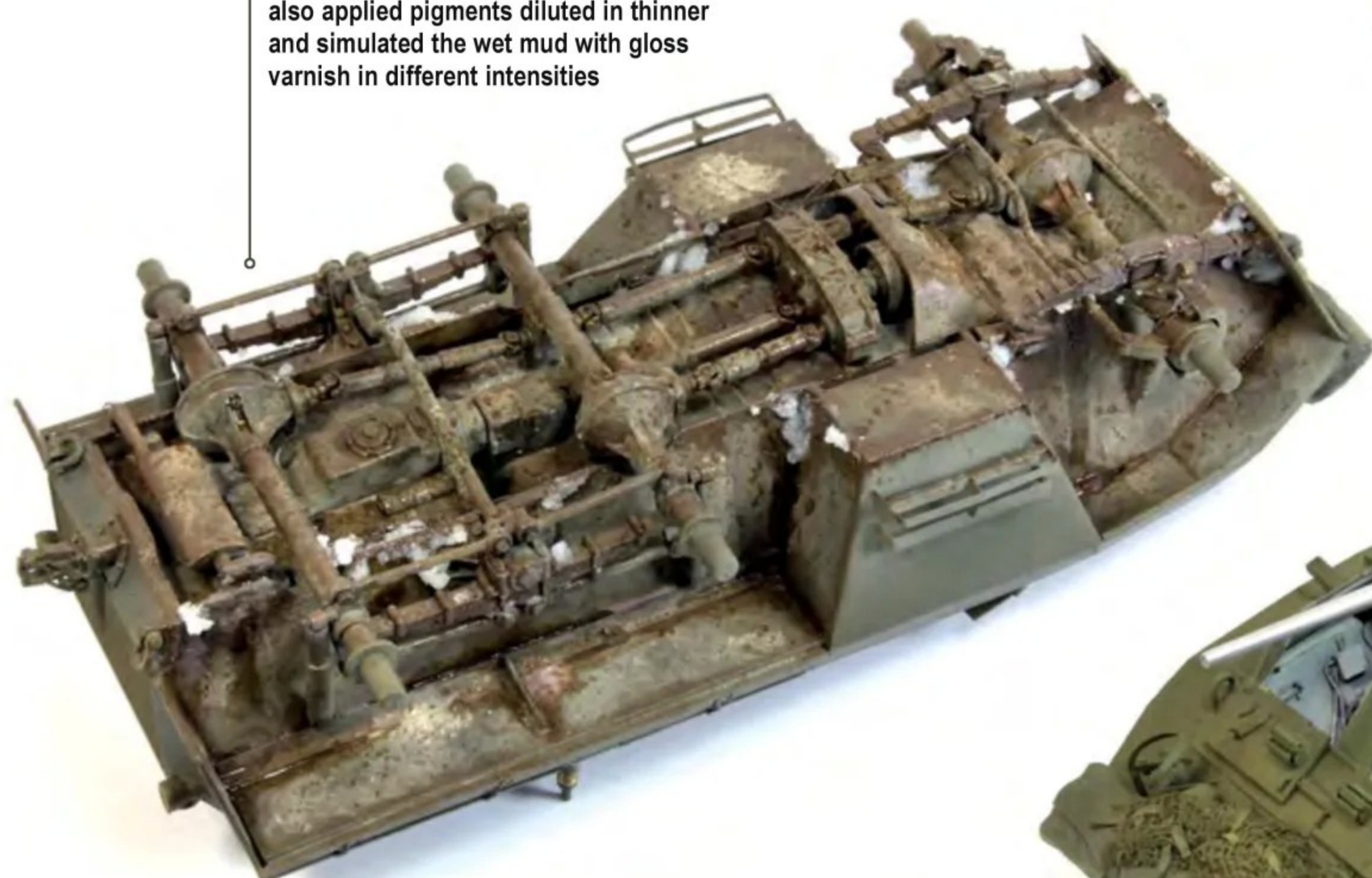


The model with the assembly phase completed and ready to start painting

On the olive drab on the underside, I also applied pigments diluted in thinner and simulated the wet mud with gloss varnish in different intensities



The wheels were painted in their respective base colours of olive drab for the rims, dark grey for the tyres and reddish brown for the snow chains. On the chains I applied Gun Metal pigment



Subsequently I carried out a filter with Model Wash 76.503 from Vallejo

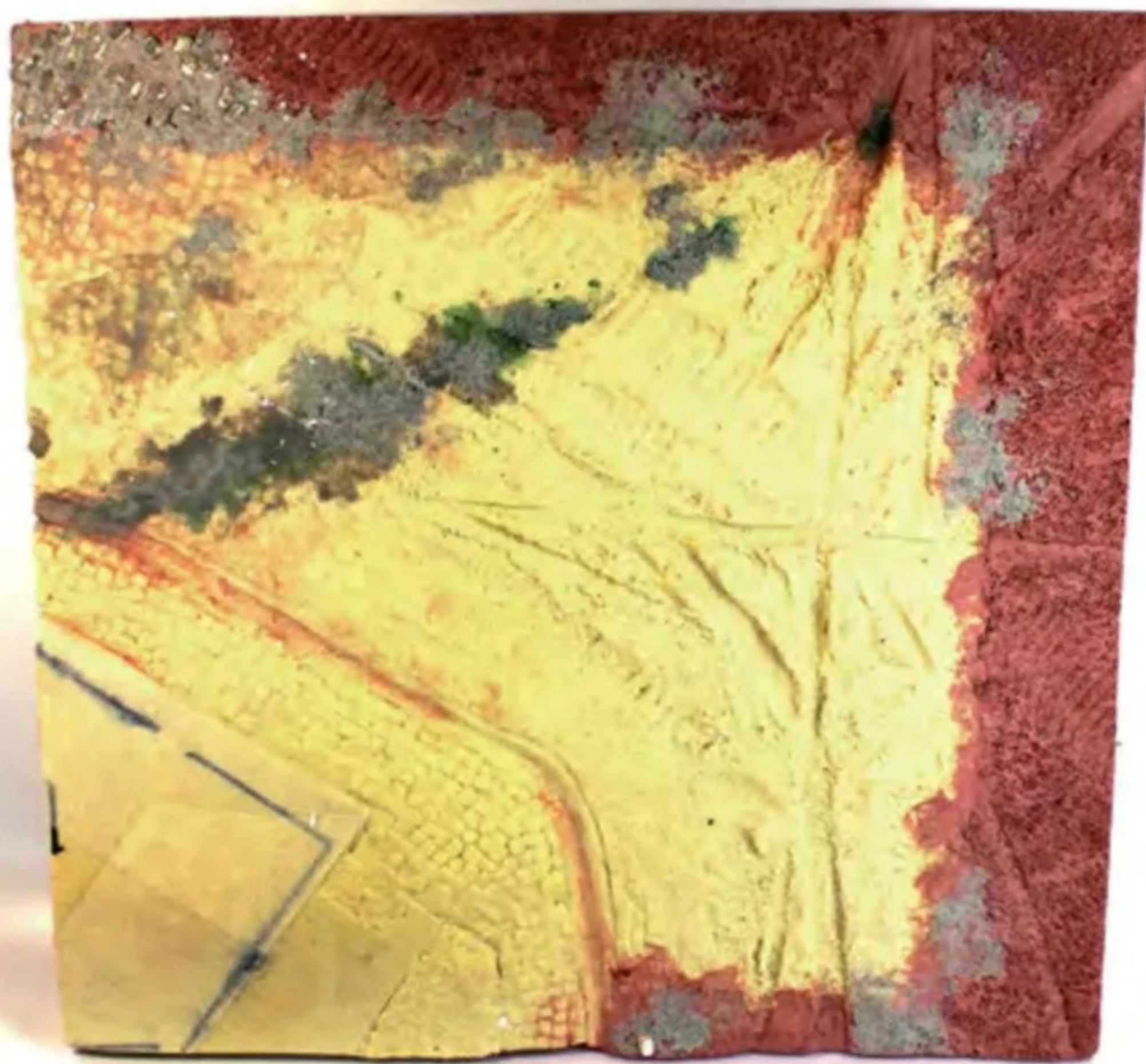


Working area by area, I moistened the surface with water and removed the white colour with a brush to simulate the scratches with a sharp toothpick, as per the Jeep



The finished model with part of the crew on board!





I started with the base provided by in the MDMB set, extending its length so that it adapts to my sketch of the idea with expanded PVC, then modelling its surface with modelling paste



Once the roof tiles are positioned, I continued adding details using with Evergreen styrene strip and tin foil



I replaced the shutters with new ones made of plastic and simulated part of the plastering of the stone wall with putty and a thin 0.2mm sheet by Evergreen



Finally I glued the building on the base and added different plant elements with various commercial sets

With a fine brush I differentiated the elements using a palette of ochre, grey and red acrylic colours for stones and bricks and blue and grey for the roof and wooden elements



I started by creating the trees, using a wooden rod of the appropriate length that I had previously covered and shaped with Magic Sculp putty. Once the trunk was painted, I made small holes with the drill and glued in asparagus fern branches. In this case I used a commercial set from Landscape in Detail that comes pre-painted. Once completed, I airbrushed different shades of green at low pressure



## FULL-BUILD: WORLD WAR TWO ALLIED DIORAMA

TAMIYA 1:35 JEEP WILLYS MB • KIT NO. 35219

TAMIYA 1:35 US M8 LIGHT ARMoured CAR GREYHOUND • KIT NO. 35228

### MODELSPEC

TAMIYA 1:35 JEEP WILLYS MB KIT NO. 35219

TAMIYA 1:35 US M8 LIGHT ARMoured CAR GREYHOUND KIT NO. 35228

#### Materials:

Injection-moulded polystyrene, waterslide decals

#### Accessories Used:

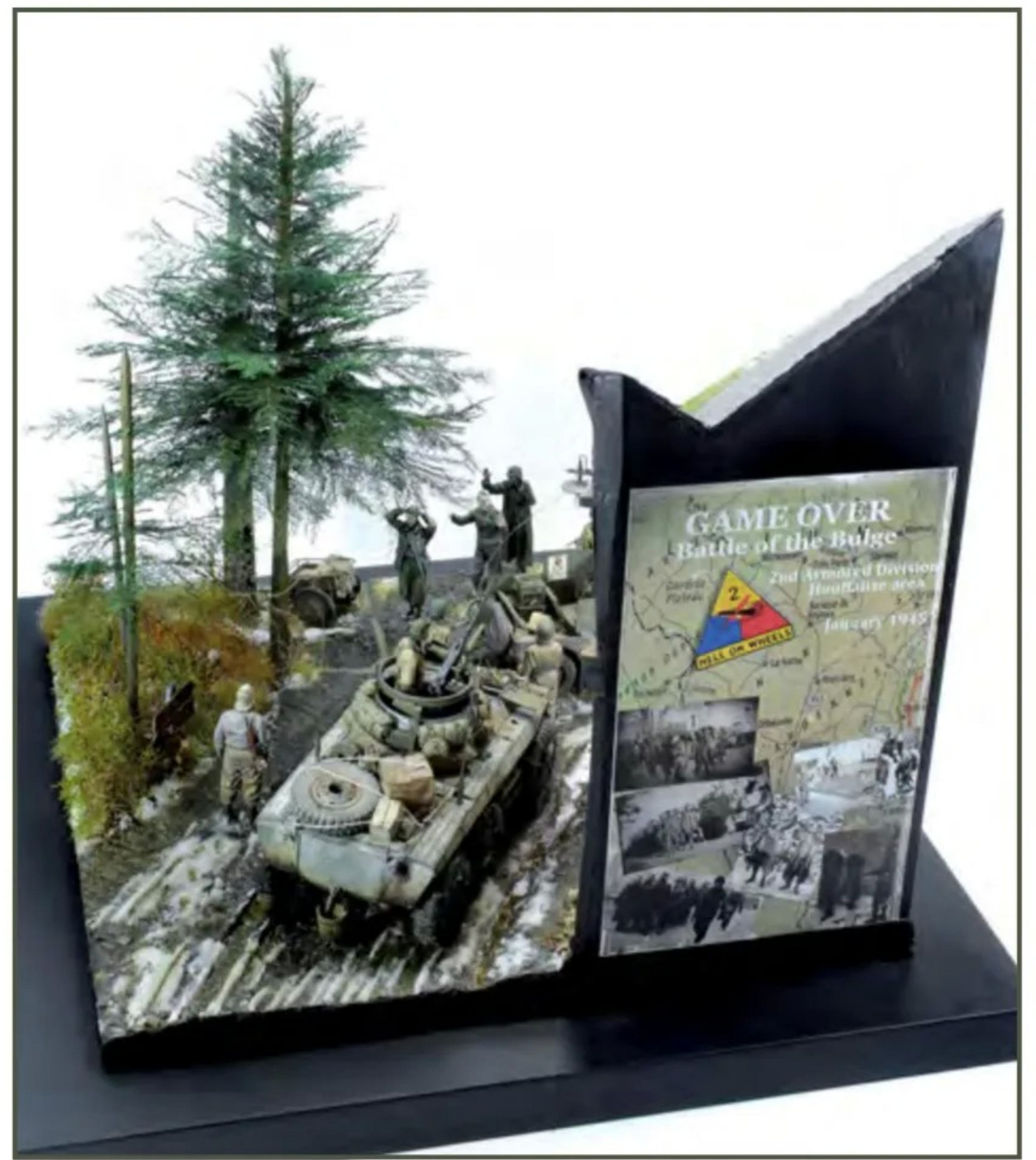
- LZ Models: 35502 US Army Radio Set, 35502 US Army Radio Sets
- Panzer Art: 35159 Road Wheels With Chains For US Jeep
- RB Model: 35B82 7.62mm Browning M1919
- Eduard: 35249 Jeep With Armour Plates
- RB Model 35B098 37mm M6 L/56.6
- Aber 35072 M8 Greyhound
- Verlinden: 1411 M8/M20 Wheels With Snow-Chains, 1464 US M8 Greyhound Stowage Set
- Alpine Miniatures: 35033 US Tank Crew In Winter, 35109 WW2 US Infantry, 35155 3rd Armored Div. Spearhead, 35190 US Tank Crew, 35218 US 3rd Armored Division, 35241 WW2 US Infantry NCO Winter
- Stalingrad Miniatures: S3156 German Pow 1944-45, S3158 German Pow 1944-45
- New World Miniatures: 35027 Surrendering Jagdpanzer Crew
- MDMB Modelbow: 980 European House
- HD Models: 35042 French Wall Lamp
- Macone Models: 35130 Concrete Electric Pillar
- Landscapes In Detail: 211 Fir Branches
- Verlinden: 028 Roadsigns Battle Of The Bulge
- Reality In Scale: 35233 Wall Advertisement Decals Belgium 2, 35312 Wooden Signs & Rusted Signs WWII Belgium, 35195 Enamel Advertising Signs Belgium

#### Availability:

Tamiya models, paints, materials and accessories are widely available from good model shops and online. UK import and distribution by The Hobby Company Limited; [www.hobbyco.net](http://www.hobbyco.net)











## KIT PREVIEW

# BETTER LATE THAN NEVER

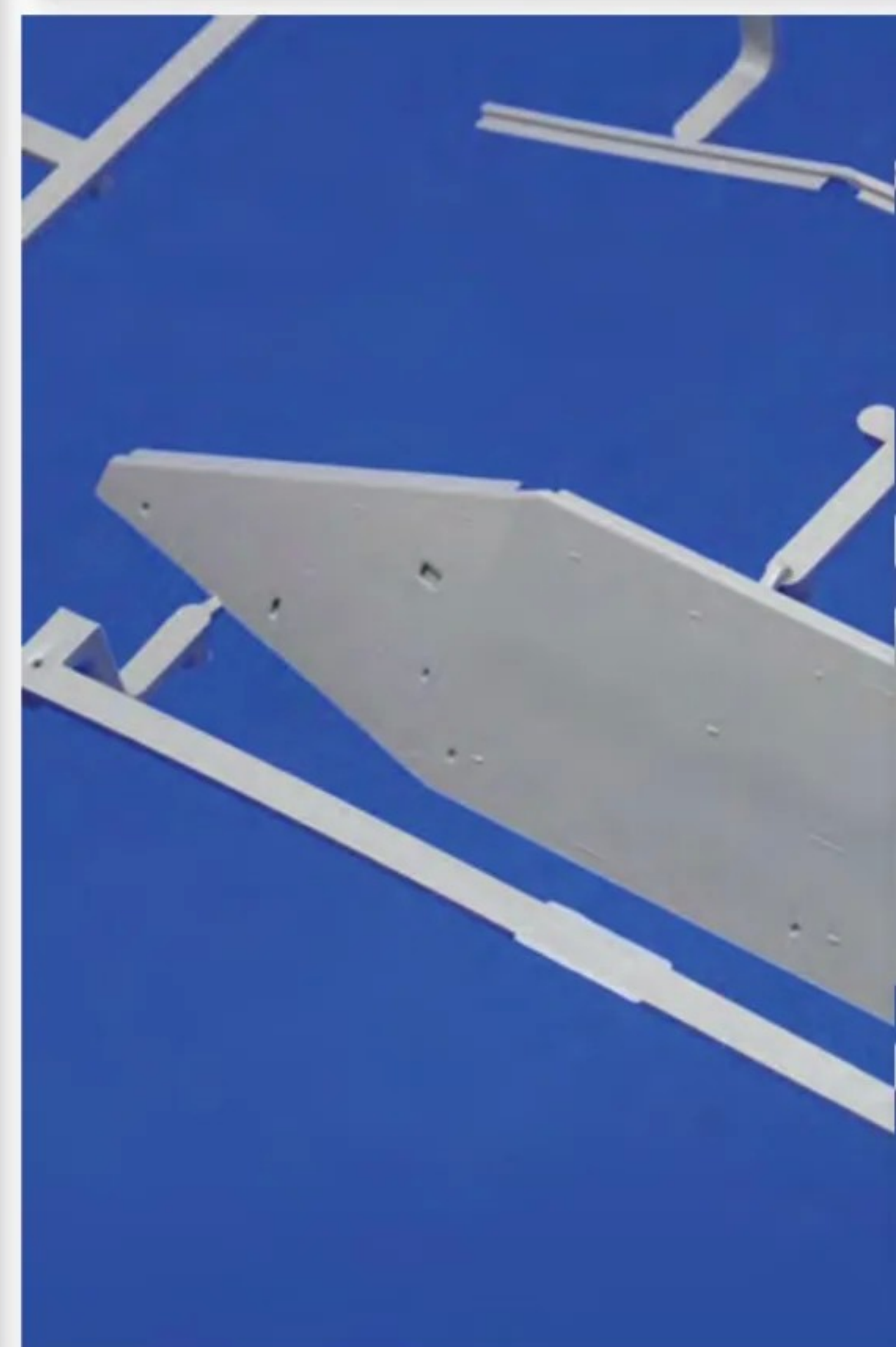
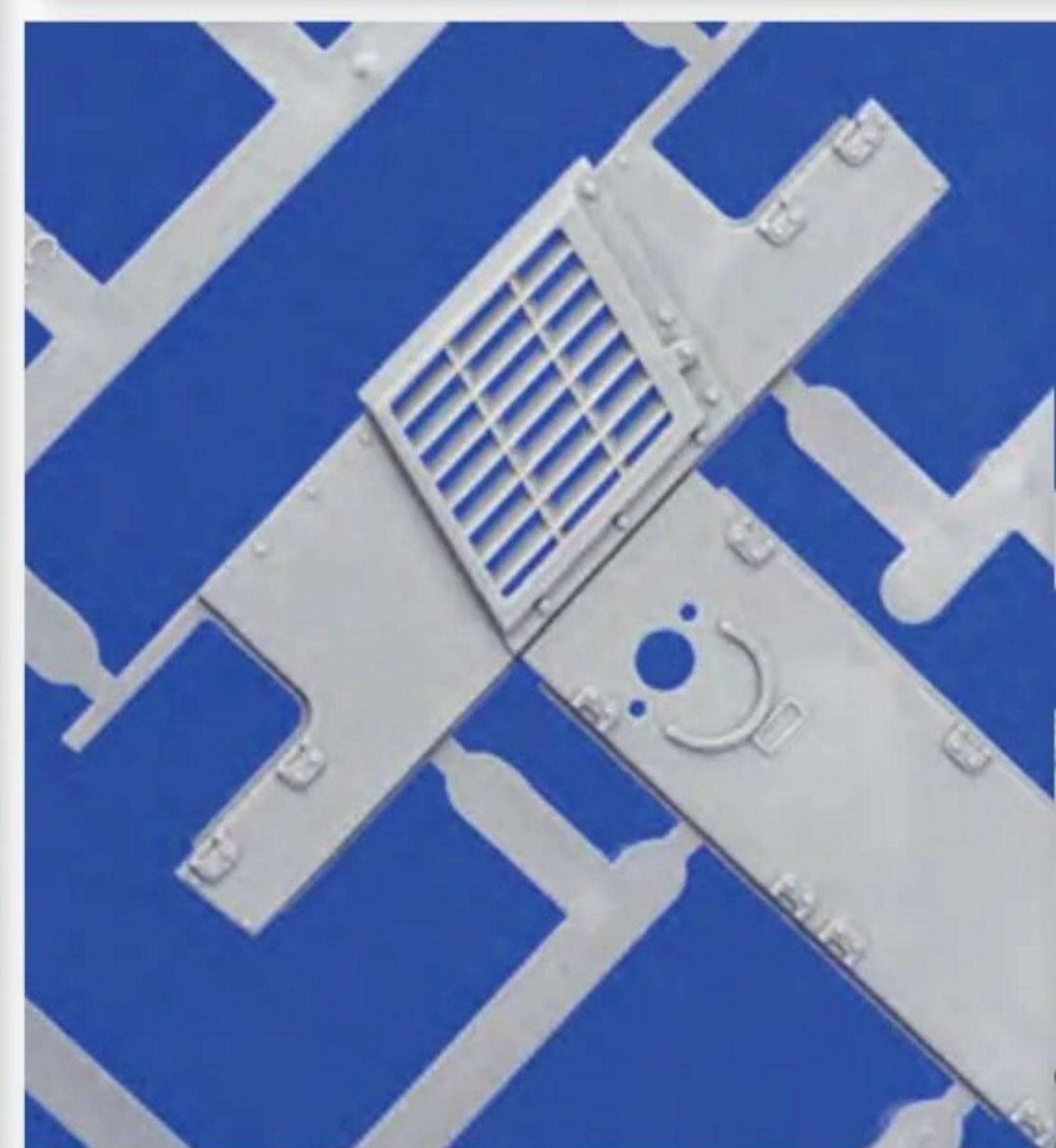
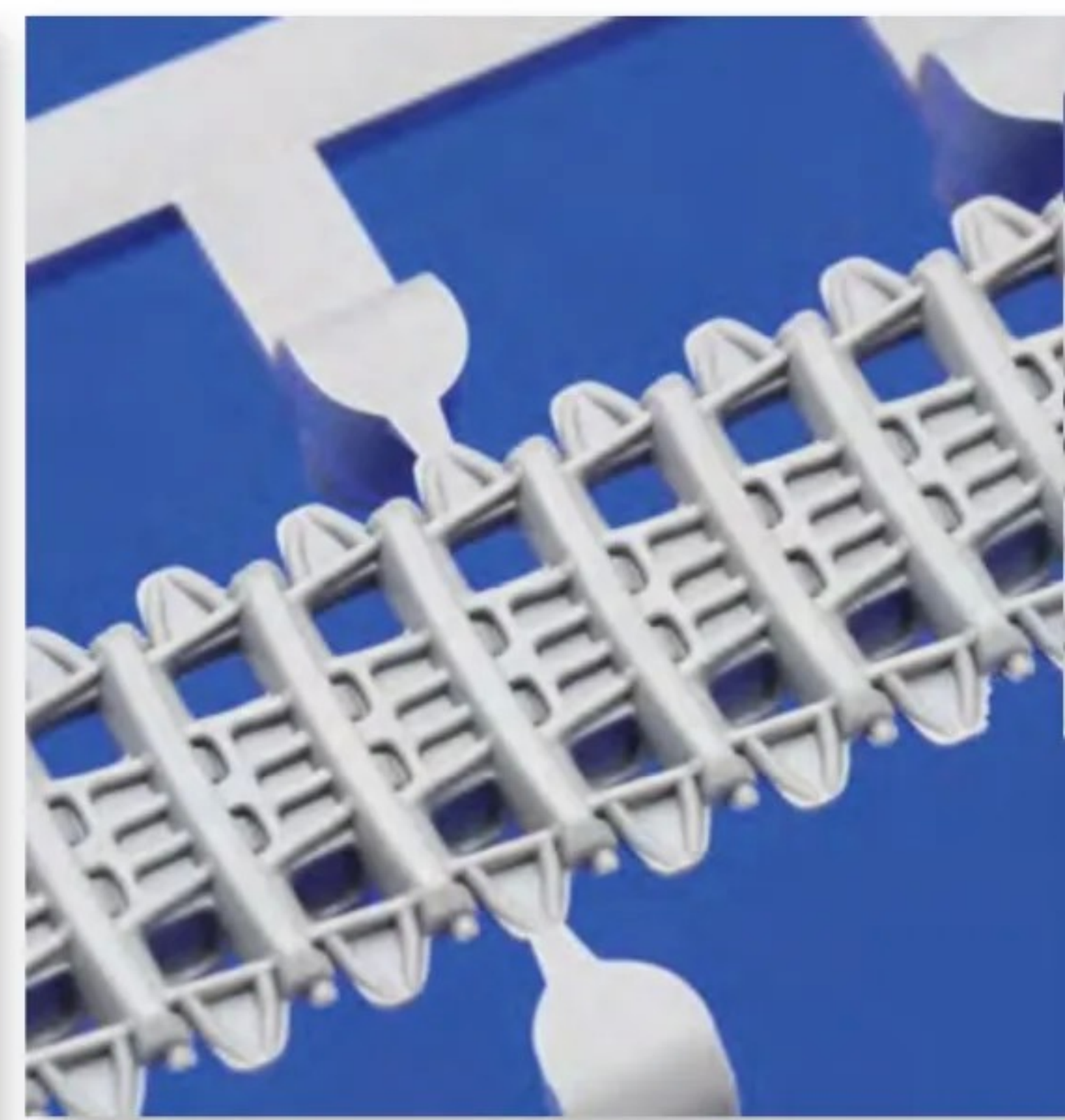
Takom's Hetzer family includes non-interior versions for modellers who don't require their tank-hunter to have full innards...

**T**he World War Two German Jagdpanzer 38(t) tank-hunter is an evergreen subject for armour modellers and there have been numerous 1:35 kits released of it by Tamiya, Dragon and even Eduard over the years, plus other models in larger and smaller scales. It's still quite a modern-looking design (to this reviewer's eyes at least) and it makes an attractive and tempting prospect for a full-build project, not least because of the complex camouflage applied to certain versions.

Takom launched a family of 1:35 'Hetzer' kits in 2023 which includes the early-production type with a full interior (as well as the same variant but without the internal parts) with similar approaches for the mid-production and late-production kit, the latter reviewed here. Even 'sans innards' the box contains twelve sprues of parts including clear mouldings for the periscopes; a clear hull roof is also to be found on the transparent

frame but it is redundant for this non-interior edition. An opaque roof is provided in grey polystyrene, should you worry that the model paint won't adequately cover the see-through moulding. The detail is subtle and restrained and there are some neat touches, such as two-part brackets for the jack which allow it to look much better than if it were a one-part moulding. Just a single piece of photo-etched brass is provided – the engine grille – and really, the kit doesn't need any more, although if you were going to town on your Jagdpanzer, the hole-filled tool box (earlier versions only) would look better in PE brass. The tracks are link-and-length and very nicely done. The 'Hetzer' is a 'model-genic' subject and is a dream to paint and weather: the only criticism here is the small-format instruction booklet which is hard to follow for older eyes. •

**AVAILABILITY;**  
[www.bachmann.co.uk](http://www.bachmann.co.uk)





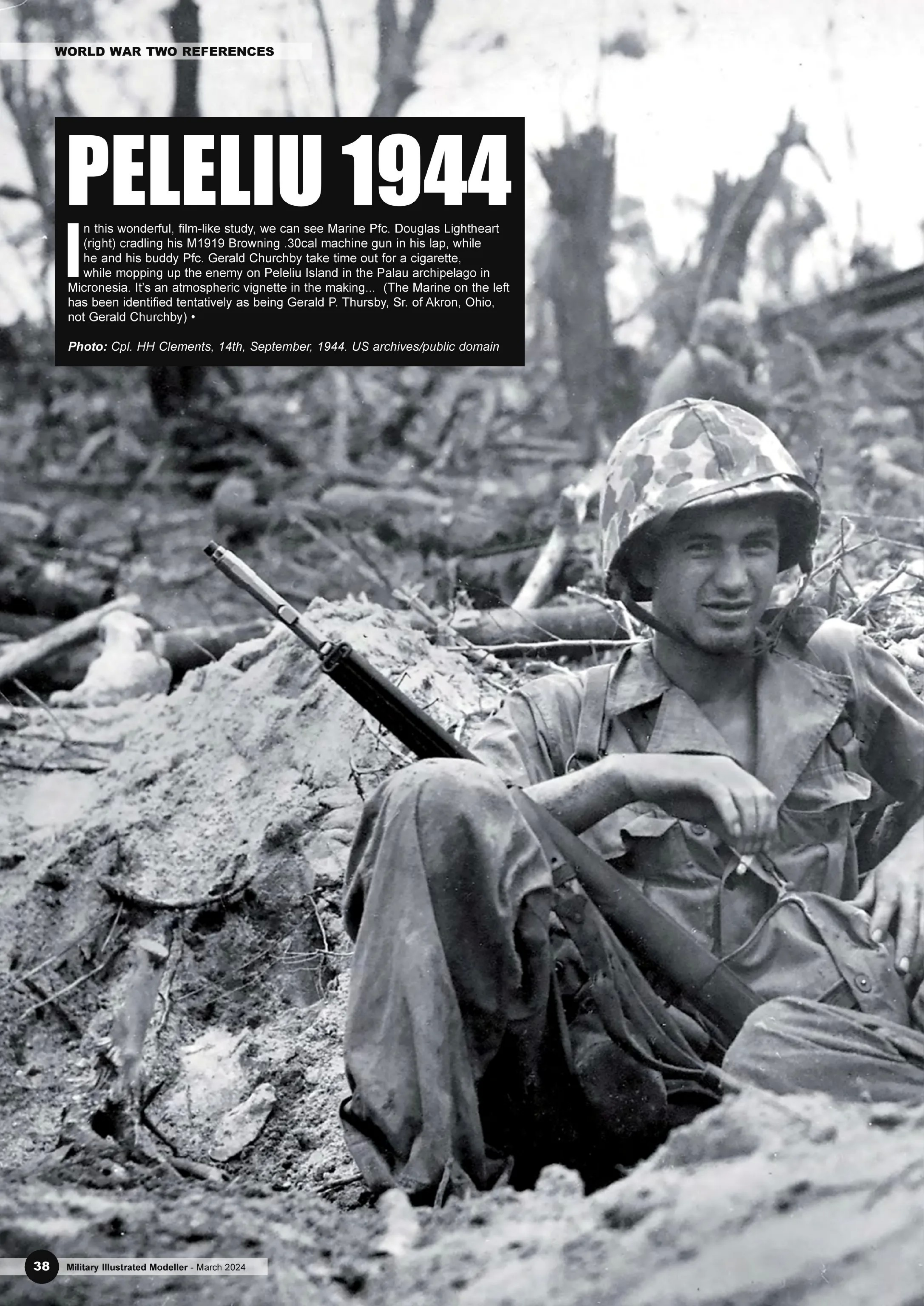




# PELELIU 1944

In this wonderful, film-like study, we can see Marine Pfc. Douglas Lighthead (right) cradling his M1919 Browning .30cal machine gun in his lap, while he and his buddy Pfc. Gerald Churchby take time out for a cigarette, while mopping up the enemy on Peleliu Island in the Palau archipelago in Micronesia. It's an atmospheric vignette in the making... (The Marine on the left has been identified tentatively as being Gerald P. Thursby, Sr. of Akron, Ohio, not Gerald Churchby) •

*Photo: Cpl. HH Clements, 14th, September, 1944. US archives/public domain*









## TAMIYA PACHI 83

Once again, 'PACHI' was filled with plenty of entries from around the world, covering an age range of eleven to eighty-two! Many of the entrants put a special emphasis on the diorama section, while in the model section of the contest, the entries showed real individuality

### DIORAMAS



#### **Operation Varsity**

Name: Akira Hitomi • Age: 59 • Scale: 1:35

My diorama pictures a scene from Operation Varsity in 1945, and stars the Comet and a motorcycle. The damaged Comet front fender was cut out of an aluminium can and I constructed the camouflage using gauze and water-based adhesive. This picture was taken outdoors and used a background panel.



#### **(Left) Scouting the enemy**

Name: Yuki Shirayama  
Age: 16  
Scale: 1:35

#### **(Centre) 1st Reconnaissance Combat Battalion**

Name: Yuki Kase  
Age: 26  
Scale: 1:35

#### **(Right) Ready to advance**

Name: Kenichi Sanada  
Age: 52  
Scale: 1:35





### To the Western Desert

Name: Junichi Nishijima • Age: 64 • Scale: 1:35

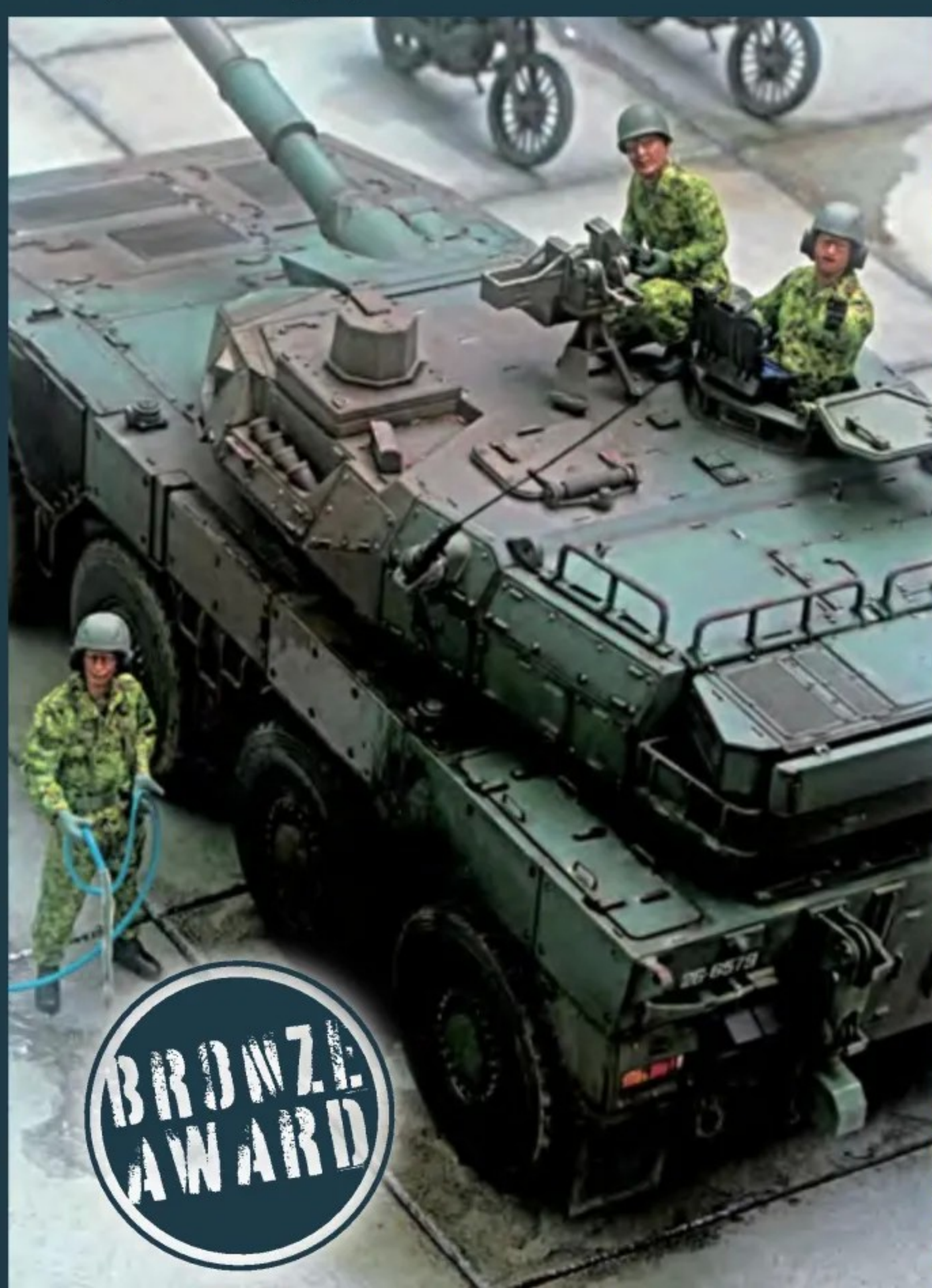
My diorama depicts an ANZAC LRDG platoon in rather relaxed mood, and I was trying to mimic the style of photo taken by photographers on the ground in a conflict. I took the picture by a window for natural light and set the focus on the figures and luggage.



### Straight ahead!

Name: Nobuya Etoh • Age: 62 • Scale: 1:35 and 1:48

Using binoculars and a bit of artistic license, I hoped to capture both ends of a dramatic scene: on the one side, German soldiers following their Goliath, on the other, American troops who have just seen it incoming. It took quite a few attempts to line up the acrylic sheet, the upper scene and my smart phone camera, but I am pretty pleased with the end result.





# News **Extra** MODEL PHOTO-COMPETITION



(Above)  
***The final fight for Berlin***

Name: Morio Abeyama  
Age: 61  
Scale: 1:35

(Below)  
***Bucharest 1989***

Name: Mikihiro Hino  
Age: 15  
Scale: 1:48



(Below)  
***Let's have a break***

Name: Kanta Hino  
Age: 12  
Scale: 1:35

(Right)  
***A friendly F-16***

Name: Shigeo Hayashi  
Age: 61  
Scale: 1:16, 1:72





# MODELS



## M4A3E8

Name: Rin Yon Min • Age: 49 • Scale: 1:35

*I switched to use link-type tracks, and added photo-etched parts for the light mounts, periscope, M2 and more. To add a bit more visually, I depicted rain streaks and weathered the running gear using pastels. I'm pretty happy with the rather realistic end result.*

## Type 16 MCV C5

Name: Kentaro Minami

Age: 32

Scale: 1:35

*Aside from the Tamiya metal barrel Detail-Up Parts Set and some third-party resin tyres, this was built straight out of the box. I already had an idea of my final picture before I started building the model, so I fixed the suspension in place and liberally applied some weathering with reference to pictures of the real thing. I snapped it using a telephoto lens and the red and white background is a nod to the Japanese flag.*



## Panzer IV 70/(A)

Name: Yosuke Yamada

Age: 59

Scale: 1:35

*I built my model as a vehicle fresh off of the production line and just into service. I did the camouflage while referring to photos of the time, and tried to keep the tones relatively light. In removing one of the Schürzen, I hoped to give the model an air of recent combat, while also showing off the running gear beneath. The bucket, tow cable and camo wires are additions of my own.*







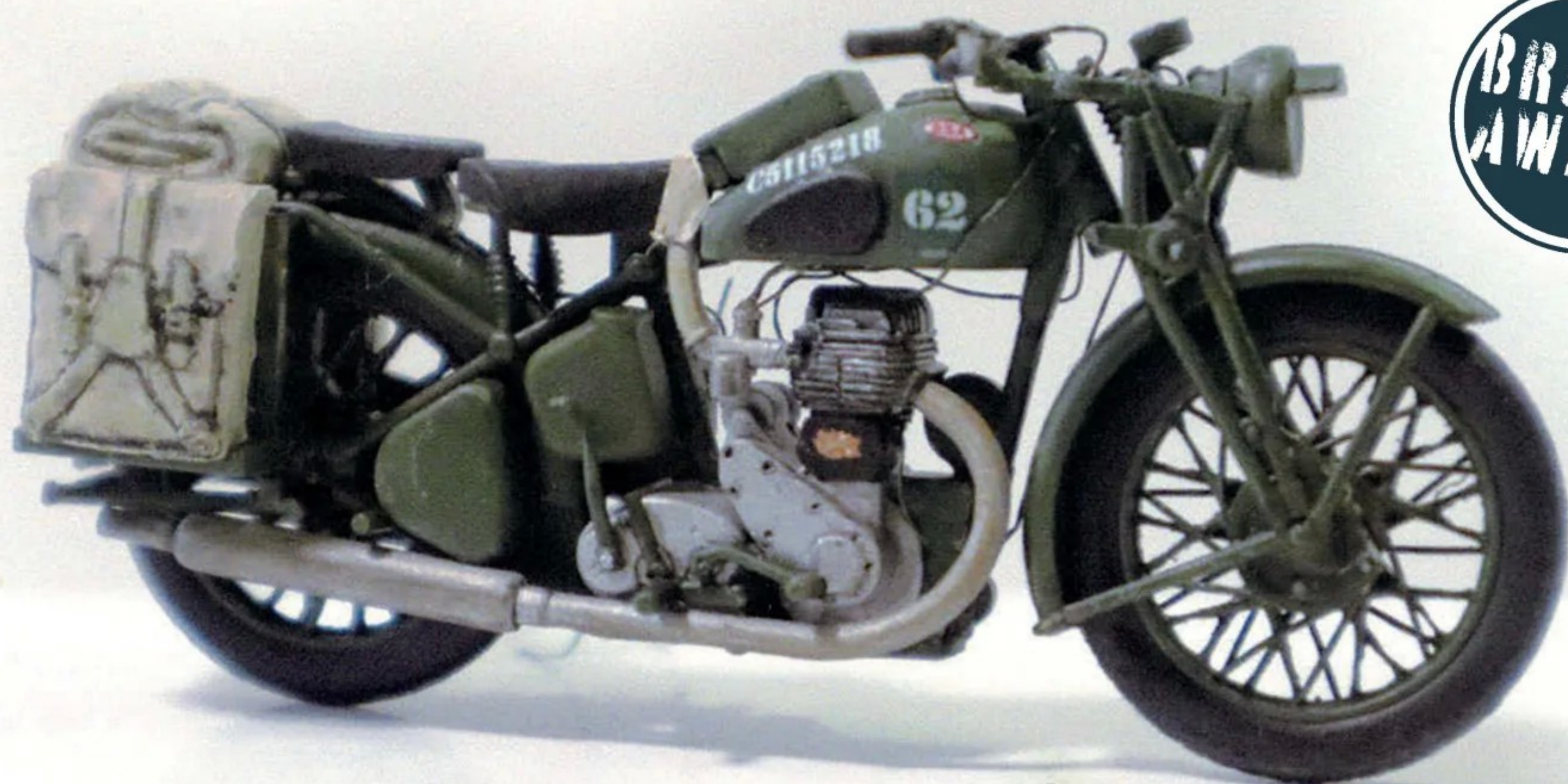
## M8 Greyhound

Name: Ryuji Nozawa • Age: 68 • Scale: 1:35



## A34 Comet

Name: Yu Kwok Leung • Age: 59 • Scale: 1:35



## (Left) BSA M20

Name: Yoshiaki Nakajima  
Age: 60  
Scale: 1:35

## (Right) Leopard 2 A6 "Ukraine"

Name: Sota Tani  
Age: 15  
Scale: 1:35



## (Left) Pz.Kpfw.IV Ausf.F

Name: Garyo Mori  
Age: 15  
Scale: 1:35

## (Right) Fire Power 74

Name: Hiroyuki Oda  
Age: 60  
Scale: 1:35





**Type 74 with Mine Roller**

Name: Tomofumi Konno • Age: 62 • Scale: 1:35





Loading 17-pounder rounds  
into Sherman Firefly, 1944

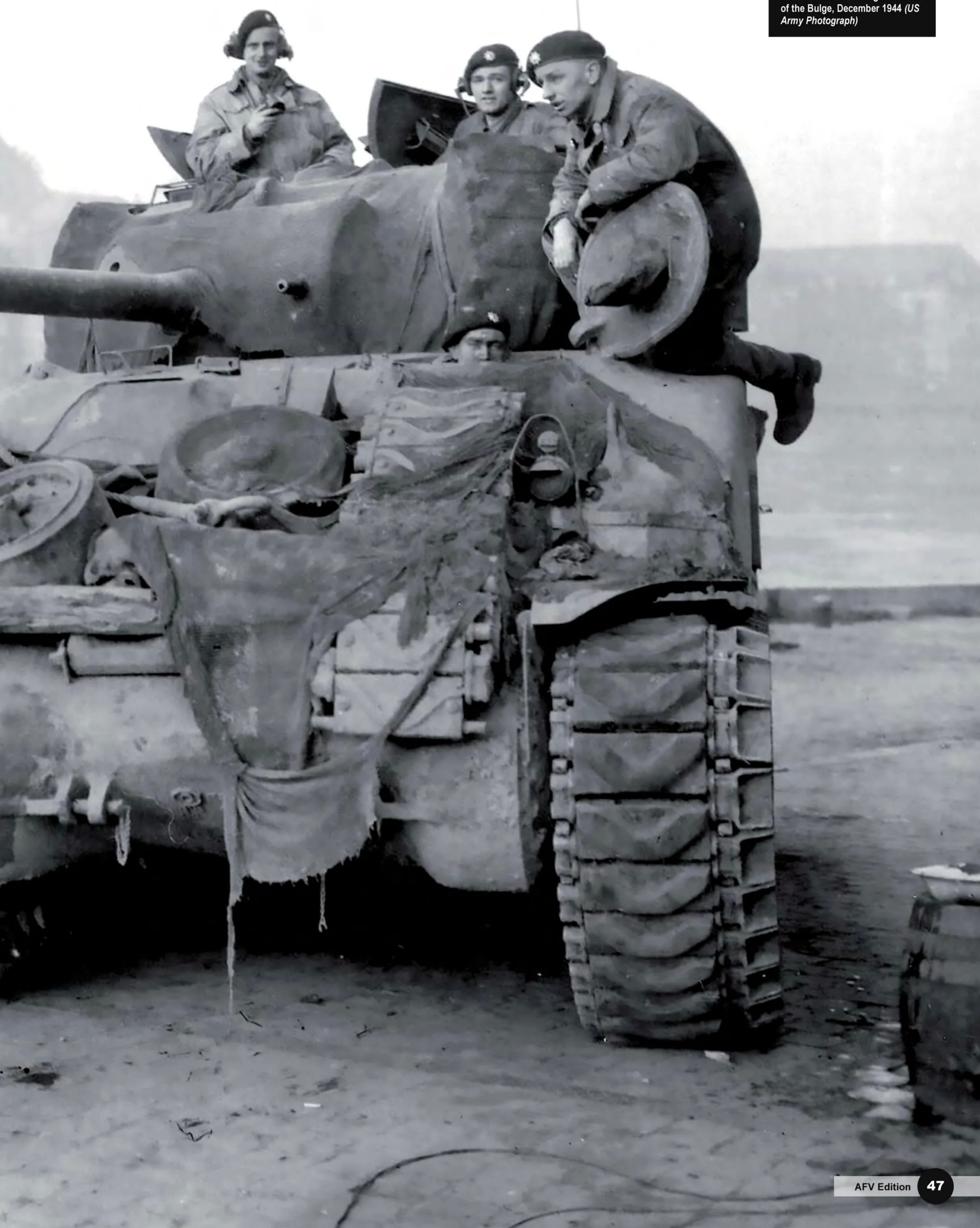


# **FIREFLY**

## ***IN ACTION!***



A British M4 Sherman Firefly on patrol in Namur, Belgium along the Meuse River during the Battle of the Bulge, December 1944 (US Army Photograph)





A Sherman Firefly of the 7th Armoured Division in Hamburg, 1945, at the Großer Burstah corner to Rödingsmarkt with Hindenburghaus in the background







A Sherman Firefly kicks up clouds of dust as it crosses 'Euston Bridge' during Operation Goodwood, North West France, 1944



South African Sherman Fireflies of the Pretoria Regiment in Italy, 1944







# M4 SHERMAN FIREFLY MEDIUM TANK



## Modelling references for the World War Two British Sherman Firefly

In 1940, the British established a Tank Mission in Washington, under the leadership of Michael Dewar, to persuade the Americans to build British tanks. It was later deemed wiser to stick to American designs. At first the tanks had to be paid for but in March 1941 President Roosevelt's Lend-Lease Act came into force. Equipment was loaned to Britain in exchange for American use of British bases.

Design of the M4 Medium Tank dates back to April 1941. A pilot model was ready in September 1941 and production began in February 1942. The design mirrored the M3 Grant in terms of engine, transmission and suspension but the hull was quite different, being surmounted by a fully rotating turret carrying the main armament. The M4A1 featured a cast hull whereas other versions were welded.

By 1943 the Sherman was getting past its prime. The gun, a dual purpose 75mm, was outclassed by comparable German weapons and was not powerful enough for the thick armour in later vehicles. An officer at Lulworth Camp came up with the idea of fitting the British 76.2mm, known as the 17 Pounder. The new design would be known as the Sherman Firefly.

The 17pdr was much bigger than the 75mm so the turret had to be modified, with a bulge at the back to fit the radio and an extra hatch for the loader. The new ammunition was bigger so there were changes inside too. Indeed the demand for space was so great that hull machine-gunner, sitting to the right of the driver was disposed of and the weapon aperture sealed.

In action the Firefly was a success. The gun proved capable of dealing with the heavier German tanks but, since the armour had not been thickened to match it was still very vulnerable. The long gun was often disguised to look like a regular Sherman.

### THE TANK MUSEUM'S FIREFLY

The Sherman Firefly in the Museum's collection was built in 1944 in the Chrysler Factory in America, and converted in a Royal Ordnance Factory in the UK. It is painted to represent a tank of Guards Armoured Division around the time of Arnhem. •

Firefly history from The Tank Museum:  
[www.tankmuseum.org](http://www.tankmuseum.org)





This rear three-quarter view shows the lengthened hull, typical of the Firefly VC



Detail view of the rear righthand-side hull. Note the guard round light, heavy weld seams around the lifting loop and (empty) fire extinguisher bracket

The Firefly's 17pdr gun took up so much room, the radio had to be moved to a specially constructed armoured box fixed to the rear of the turret





The base for the radio antenna is protected by this armoured collar: note the hole at the front to allow rainwater to flow out



The thickness of the frontal armour and its welding seam can be appreciated here. Note the casting marks on the gun's mantlet



The frontal hull-mounted machine gun was deleted and covered on the Firefly



Overall view of the hull front showing headlight guard (the light has been removed and its mounting hole plugged) and spare track brackets





Close-up of the casting marks on the armoured transmission cover



Casting marks will also be found on the lifting loops and other items

The front mudguard carries a large dent - modellers take note!



As with the aerial base, the fuel filler caps are also protected by an armoured collar with a rainwater hole





Sheet-metal fittings as seen here were generally welded directly to the hull, an important detail for scale modellers



The engine's air intakes were fitted with a diamond-shaped mesh. Note the wall-thickness of the intake, plus the rod inside the casting



On models, light guards are often depicted with photo-etched brass, but 3D-printed parts offer a potentially more realistic appearance







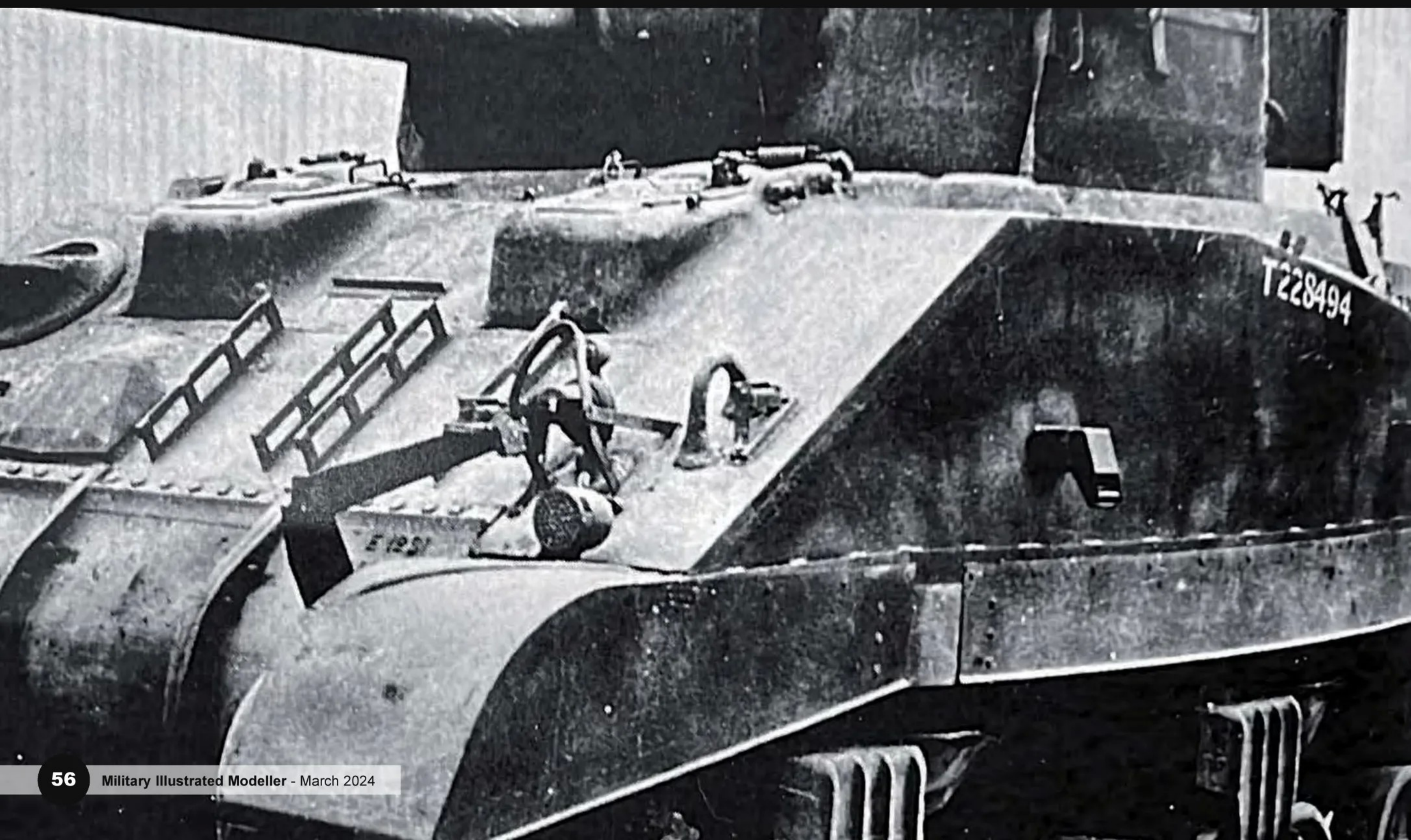
This long stowage box on the rear hull was a characteristic of the Sherman Firefly



The business end: the 17pdr gun's muzzle brake had a distinctive glove-shape, a quick visual identifier for this version of the Sherman



The strip along the lower edge of the hull sides was for track guards, although on the Firefly, they were not usually fitted. The square bracket above is one of several for fittings along the hull side that held in place a tarpaulin cover that replicated a truck for the purposes of concealment, above right and below







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# TINIAN, MARIANAS 1944

An LVT-2 Amtrac 'Water Buffalo' carrying Marines of the 25th Regiment, 4th Marine Division approaches White Beach 2 on Jig-Day, July 25, 1944

**I**t landed its Marines, including a SCR-300 radio operator and a bazooka team, against the beach cliffs: note sandbags for additional protection up front. Unlike the beach at White 1, which had deteriorated mines and outnumbered defenders, White 2 was ringed with hundreds of Japanese horned naval mines meant for ships and had blockhouses with anti-tank guns, machine guns and riflemen. The pre-invasion bombardment failed to destroy the mines or the beach defenders.

Three LVTs and a Jeep struck mines during J-Day and were completely obliterated. Some mines were attached to beer bottles, watches or souvenirs. The White Beaches could only support sixteen Amtracs landing at the same time and only if the LVTs also used the flanking cliffs on either side. Ramps were

built out of scrap from a sugar mill on Saipan and carried by the first LVTS to land. The others used these ramps to scale the cliffs.

The LVTs themselves were used as well. Lieutenant Colonel James Paul, the Executive Officer of the 25th's 3rd Battalion, later said, "Usually two Marines stood at the bow of each LVT and assisted their comrades up to where they could secure a handhold on the jagged coral rim. Although this method was slow, it did relieve the congestion on the beach proper and permitted the assault units to advance rapidly inland, thus taking full advantage of the surprise gained". By 0820 Hours two assault battalions were landed and moved inland rapidly. Sporadic artillery fire continued throughout J-Day. Introductory text by Jason McDonald. •

*Photo: US National Archives, Public Domain*







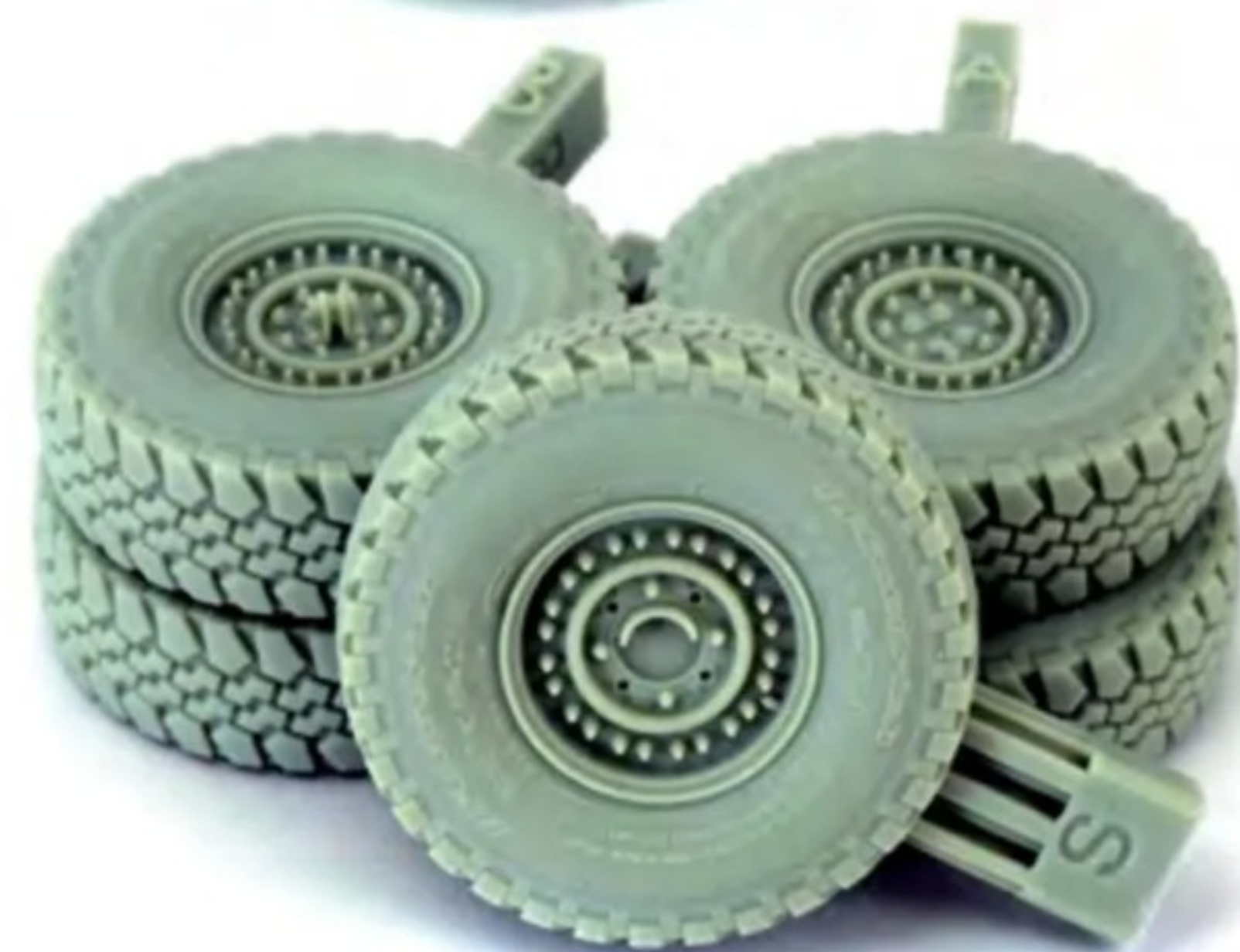


### DEF MODEL, KOREA

DEF Model have had a very productive period lately and we are lagging a little with reviews of the new items. Recent arrivals at MIM include two wheel/tyres sets and two up-armour sets for the M4A3 Sherman in 1:35. The Republic of Korea Army K311A1 is a ¼ ton utility truck and here we have some beautifully detailed replacement wheels for it in 1:35, with DEF's trademark weighted appearance included. In a similar vein, we have a set of five (including spare) wheels and tyres for the US M1151 HMMWV 'HUMVEE', as nicely done as ever. Changing eras, we have a pair of improvised frontal armour for the M4A3, one formed from sandbags and the other, concrete over sandbags. The sets were created for Zvezda's newest M4A3 (3676) but can be used on other brands' Shermans. Flawless resin castings and excellent detail.

#### 1:35 resin detail sets

- ROK K311A1 (KM450) Sagged wheel set (DW35154)
- US M1151 HMMWV BFGR Sagged wheel set (DW35158)
- US M4A3 Sherman concrete front armour (DM35122)
- US M4A3 Sherman sandbag front armour (DM35121)



### RED ZEBRA, UK

Red Zebra make a wide range of scale model accessories and they are always beautifully sculpted and full of character. Three new sets to arrived recently include a suite of stowage for Tamiya's 1:48 Challenger 2 kit, plus some generic bedding rolls in 1:35 (all eras) and bin bags of domestic waste for dioramas. Excellent resin castings and some lovely attention to detail make these sets a must-have for one's spares box.

#### 1:48 resin detail set

- 1:48 Challenger stowage (n/a)

#### 1:35 resin detail sets

- Domestic waste (n/a)
- Rolls 4 (n/a)



1:48 Challenger stowage



## HAULER, CZECH REPUBLIC

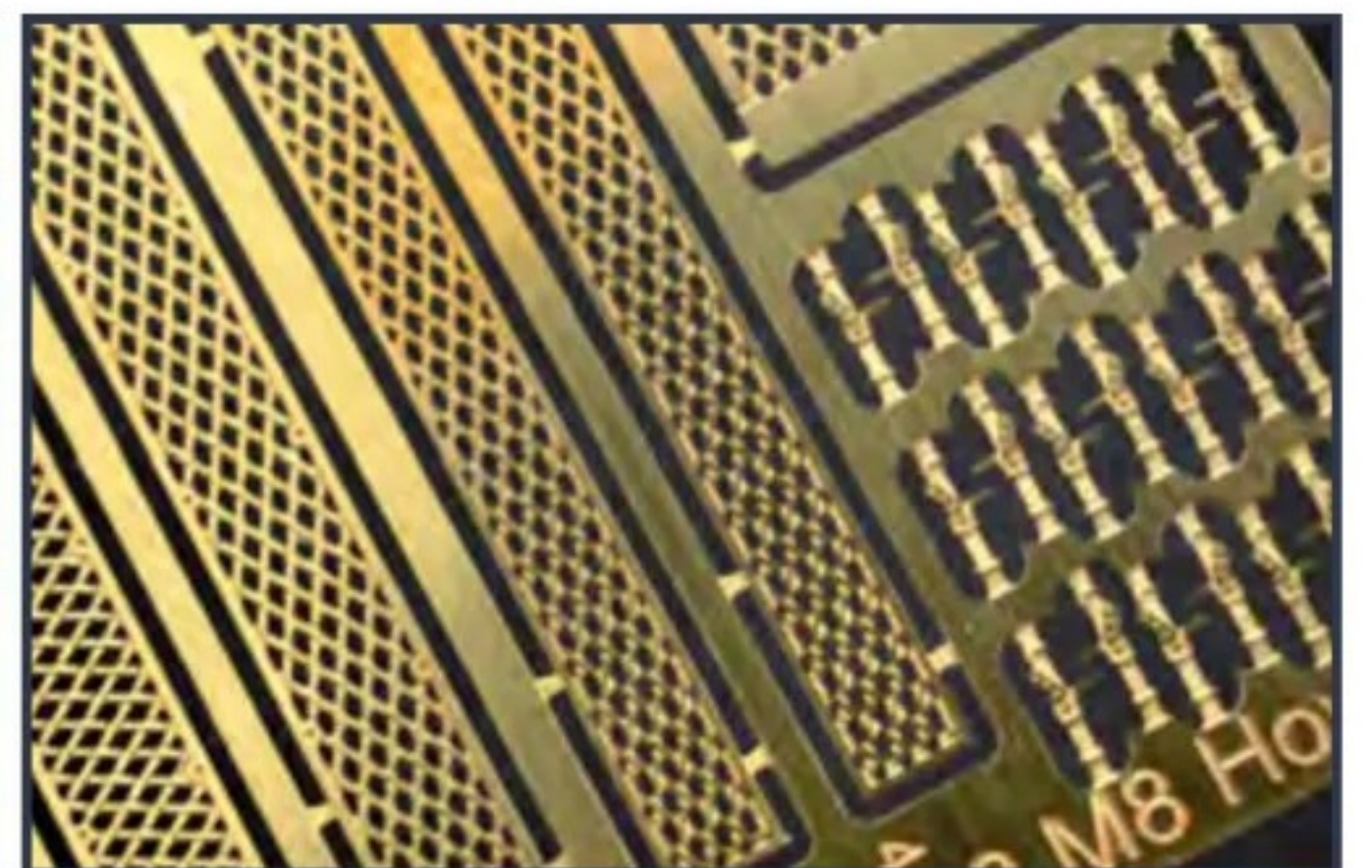
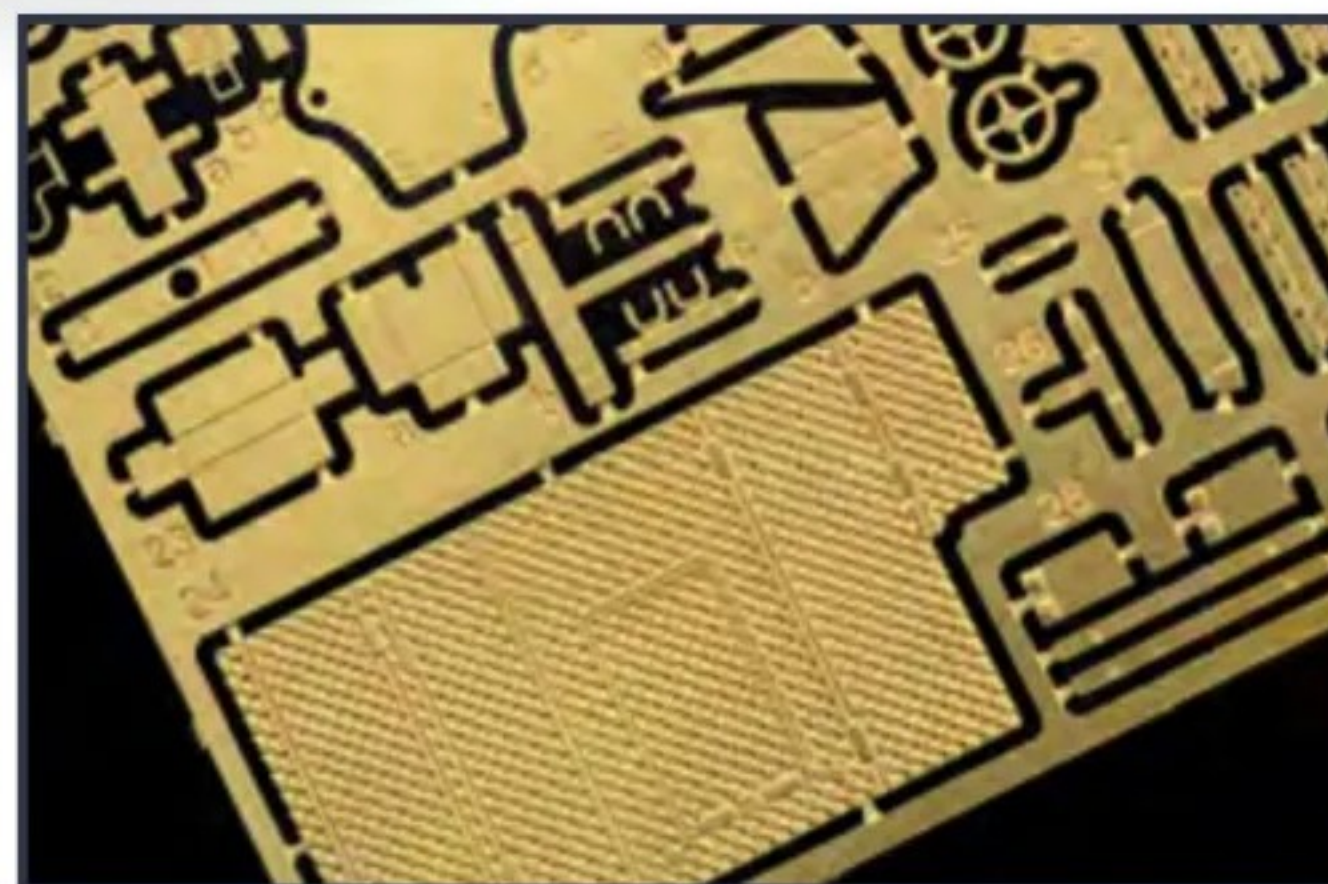
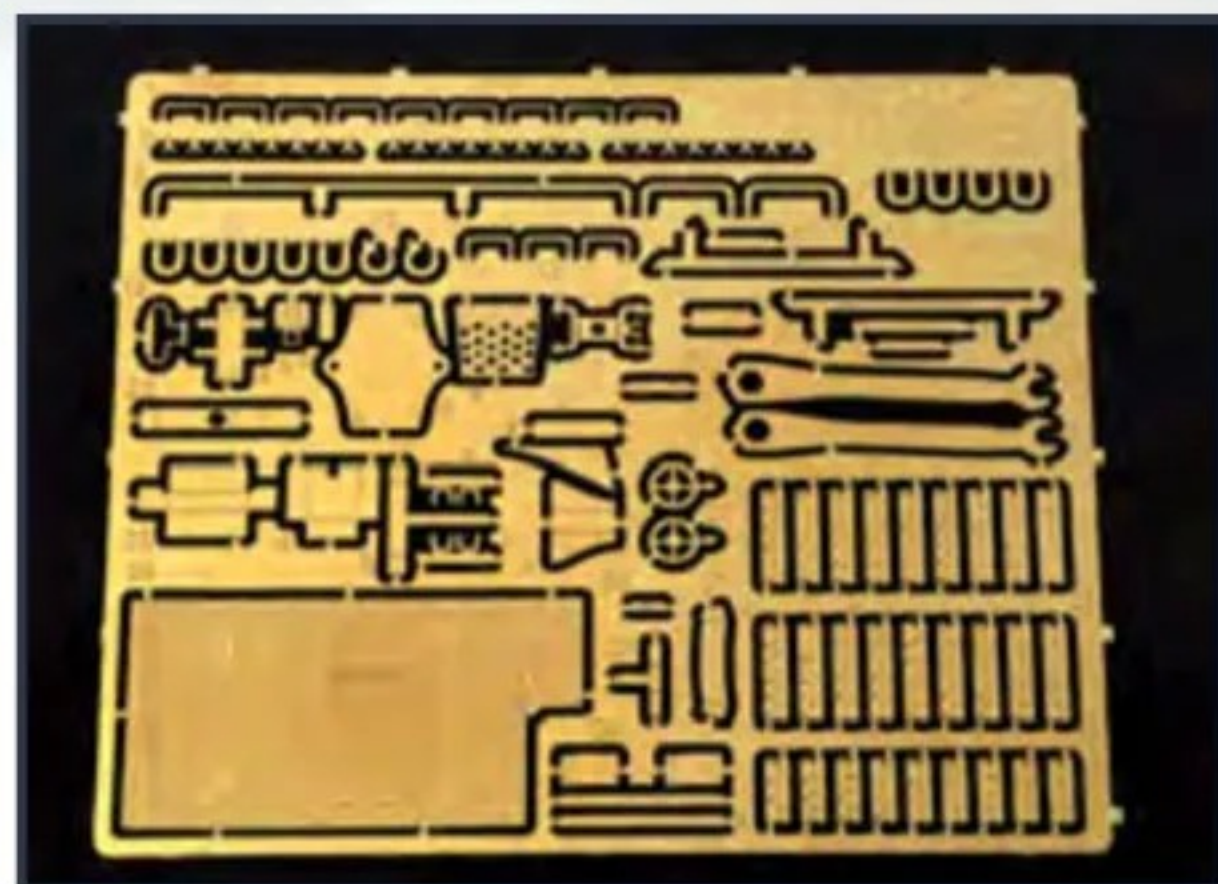
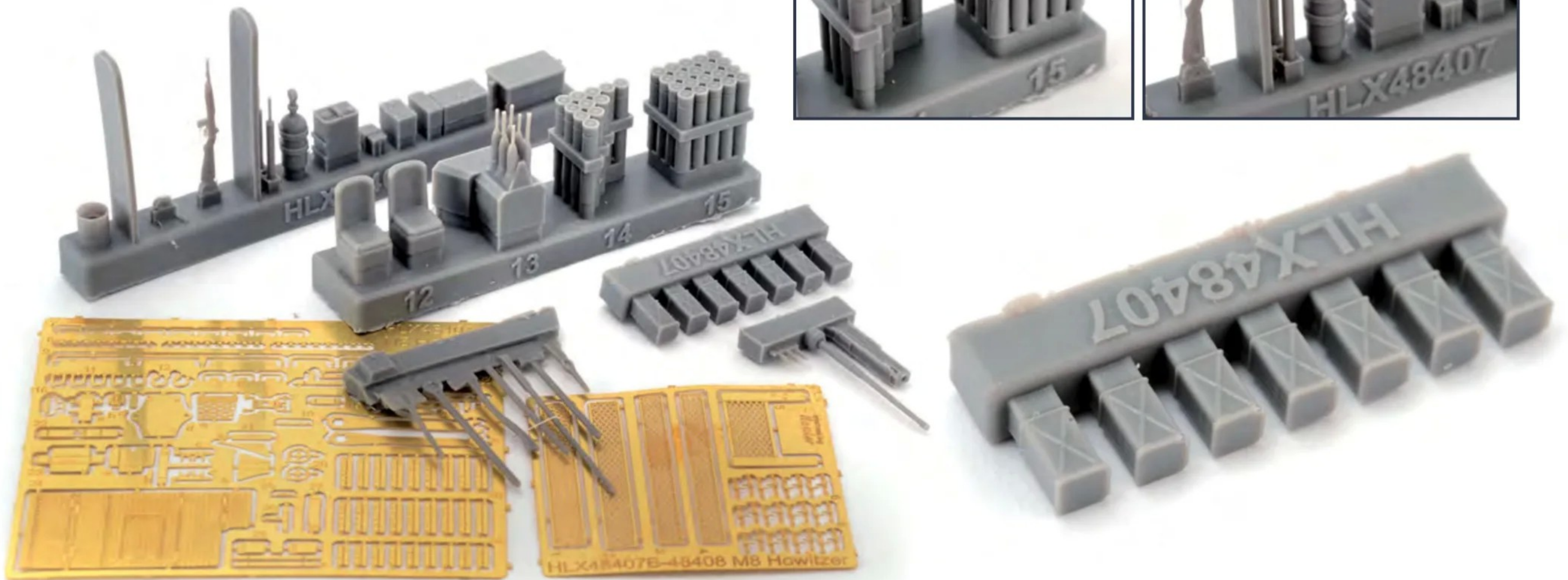
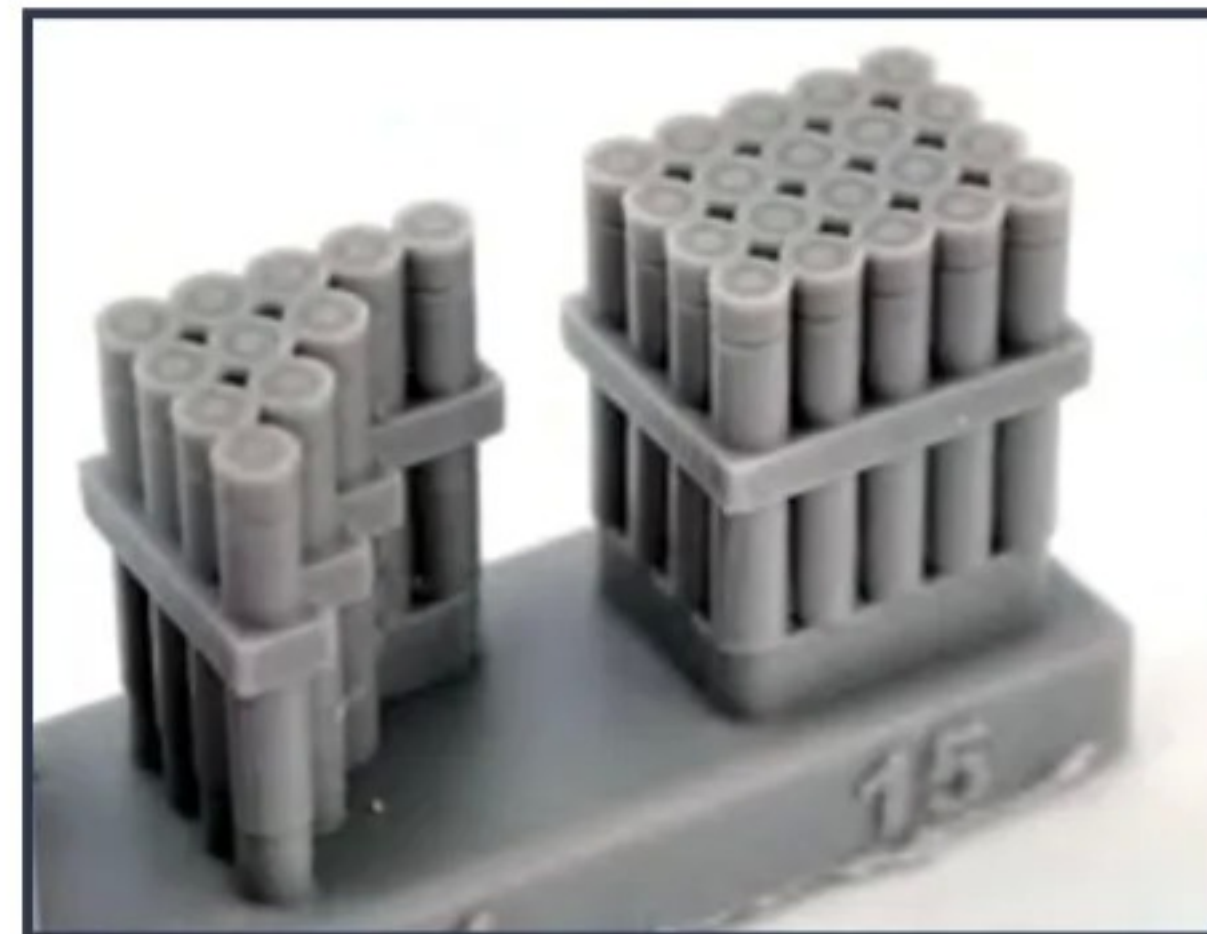
Since its release, Tamiya's superb little 1:48 M8 HMC has attracted some very neat detail sets. Possibly the most extensive is this resin and photo-etched brass upgrade package from Hauler and it includes internal ammo racks and rounds, driver and gunner's seats, fire extinguishers and other interior parts, plus a whole new floor in PE brass, complete with non-slip pattern. In the turret we have .50cal ammunition boxes, M1 carbines and a whole new M2 Browning machine gun. On the exterior we are treated to engine grilles, new tools (resin) and brackets (PE), headlight brush-guards and spare track brackets. It's an extensive set that will bring an extra touch of refinement to Tamiya's already lovely little M8. The finishing touch is Hauler's PE brass hedgerow cutter which folds up and fits to the bow plate (not pictured here).

### 1:48 resin and photo-etched metal detail set

- US Howitzer Motor Carriage M8 (HLX48407) for Tamiya

### 1:48 photo-etched metal detail set

- US Howitzer Motor Carriage M8 hedgerow cutter (HLX48409) for Tamiya





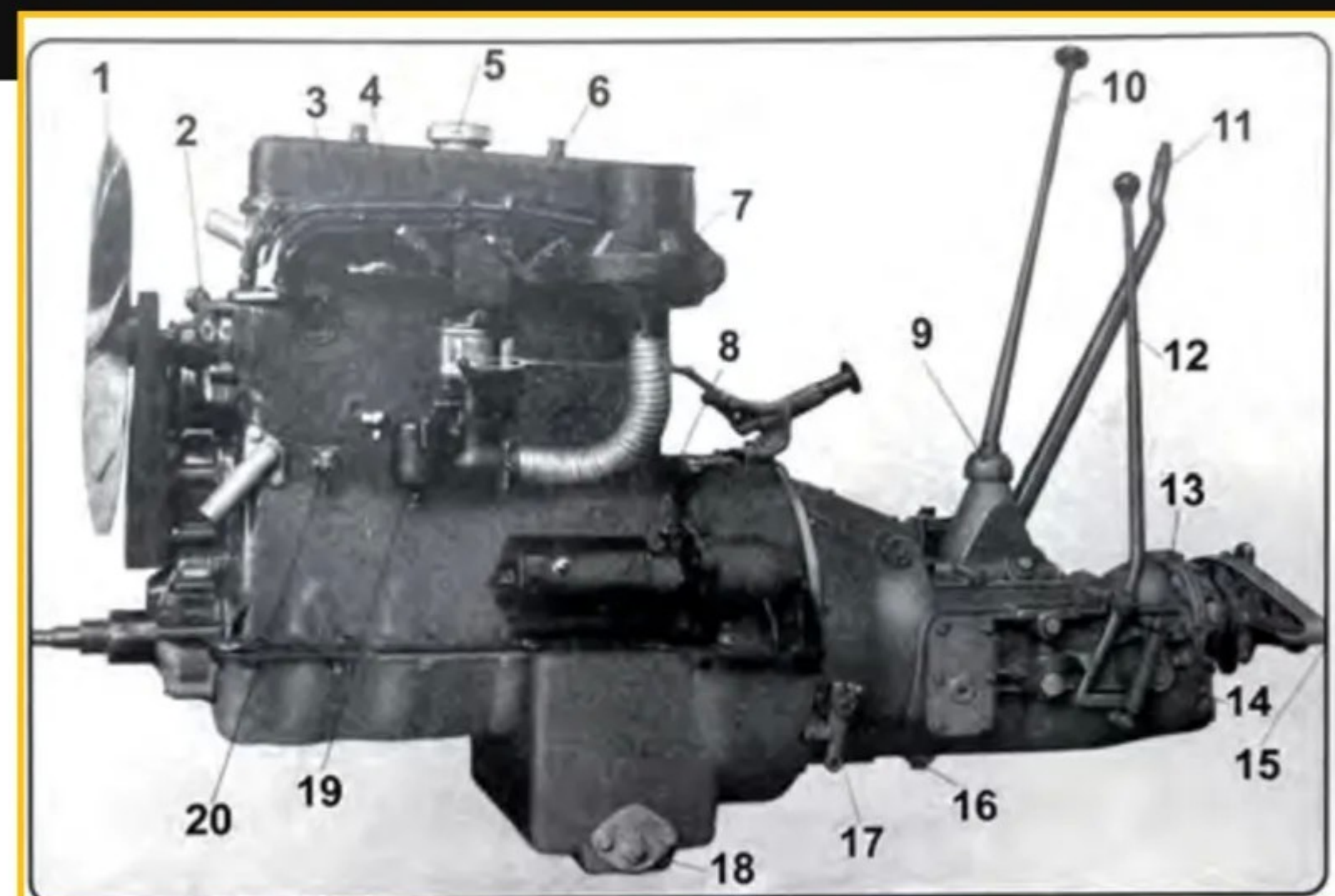
# BOOK REVIEWS



## VOLUME 48: SCHWERER PANZERSPÄHWAGEN (6-RAD)

HEINER DUSKE & HOLGER ERDMANN, NUTS & BOLTS  
[www.nuts-bolts.de](http://www.nuts-bolts.de)

The titles of the outstanding Nuts & Bolts books are lengthy, but specific. This particular volume continues with 'on Büssing-NAG, Daimler-Benz and Magirus chassis; Sd.Kfz. 231, 232, 263 and variants'. This is in fact very important, because



the German six-wheel armored cars seen in early WW2 were produced by three different manufacturers, and despite obvious similarities, the vehicles differed greatly according to which factory produced them.

Sadly, too many models have been made with dimensions and details being a random mix from the three types. This latest book from Nuts & Bolts continues with the successful format of the other volumes, with an incredibly detailed history of the development and manufacture of the

prototypes and production vehicles, followed by the unit allocations, organisation and unit histories. The heart of the book is around 120 pages of photographs with detailed captions, showing component parts, followed by coverage of these cars in service – often bogged, damaged or

wrecked – illustrating the difficulties faced by these thinly-armoured vehicles based on overloaded 6x4 truck chassis, ill-suited to the conditions they faced. The next part of the book provides superb scale drawings of the various armored cars, including the radio-versions, allowing the modeller to make an accurate replica of a particular type. After this, the book provides eighteen

colour profiles which show the reader what these vehicles looked like and in each case the artwork is linked to a period photo. Finally, as not a single example 6-rad has survived, the book includes a range of photos of appropriate truck chassis details and parts of the similar 8-rad vehicles that were common to the 6-rad series. Overall, this is very definitely the book that historians and modellers have been waiting for, at last giving accurate details of the various 6-rad armored cars that have been so confused in the past. At last a book on the 6-rad that gives everything a modeller or historian might need! Overwhelming detail but absolutely worth every penny for the accurate information. **CLS**





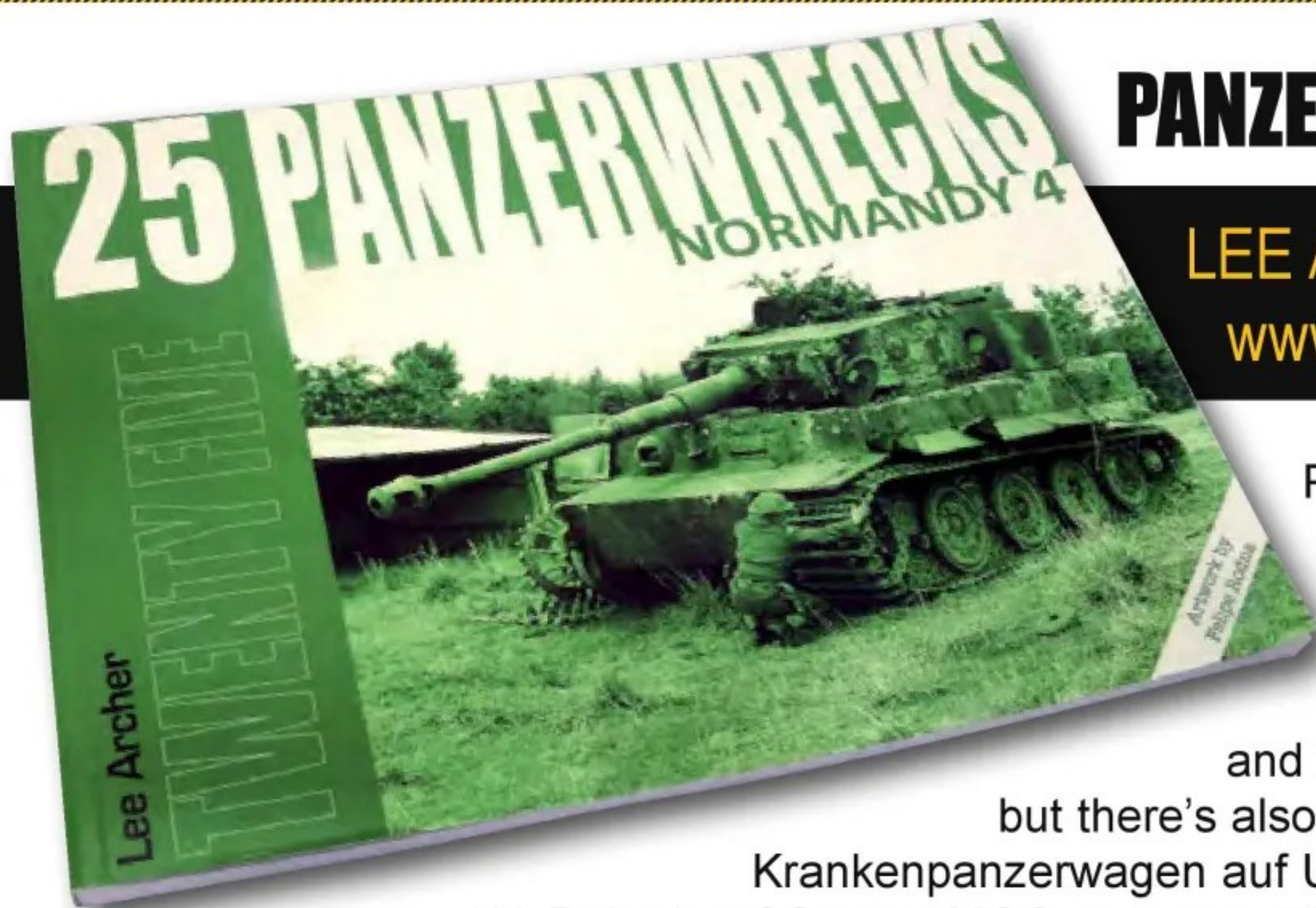
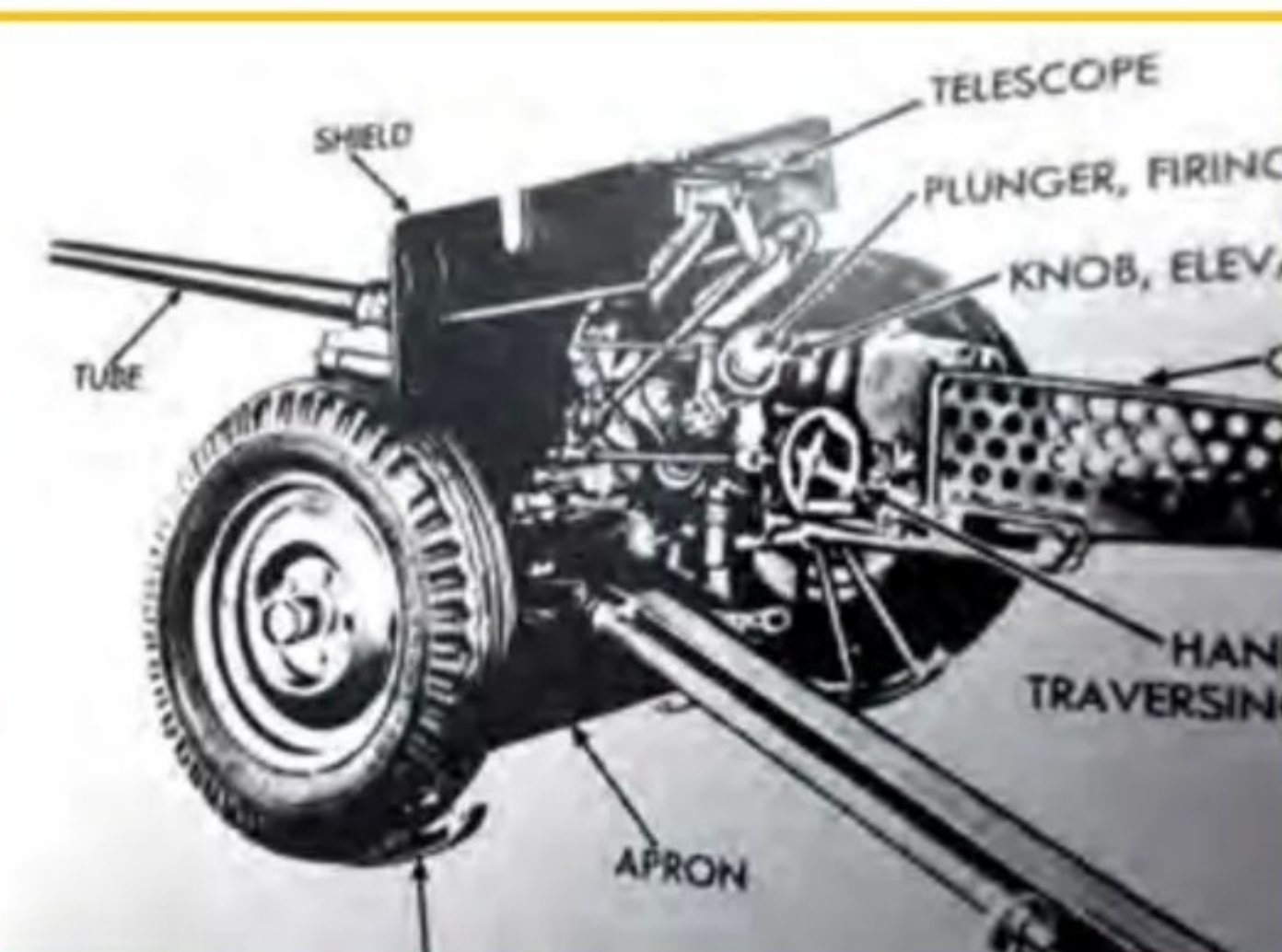


## THE US 37-MM GUN IN WORLD WAR II

CHARLES C. ROBERTS, JR, CASEMATE  
[www.casematepublishers.co.uk](http://www.casematepublishers.co.uk)

At the outbreak of WW2, different 37mm calibre anti-tank guns were fielded by many nations, including Germany, Sweden, Poland, Japan and Czechoslovakia. The US Army had their own gun, based on WW1 origins, which was available when the US entered WW2. However, the

37mm projectiles had been shown to be inadequate against the armour of heavier tanks and these smaller guns rapidly disappeared from purely anti-tank roles. However, the US forces continued to mount these guns in tanks (eg. Stuart, Lee) and then in armoured cars (eg. M8 Greyhound), so the US 37mm retained a presence on the battlefield until the end of WW2. This book from Casemate is a very comprehensive coverage of the US 37mm in all of its guises, whether on boats, aircraft, or on many experimental vehicles. The book gives a wealth of detail on every aspect of the guns, including the shell types, ballistics and mountings. With 160 pages in hardback format, the book relies heavily on factory photographs and drawings, as well as comprehensive graphs and charts. There are relatively few photos of the guns in action, whether in North Africa or in the Pacific and the main value of this publication is to set this little gun into context as a valuable light weapon but not an adequate calibre to slug it out with enemy tanks. The wide coverage of this book will appeal to anyone interested in the development of weapons in the transition from pre-war concepts to the brutal reality of WW2 combat conditions. A fully detailed description of an anti-tank gun and its derivatives: A great source of information, but not many photos of the guns in action. **CLS**



## PANZERWRECKS 25 NORMANDY 4

LEE ARCHER, FELIPE RODNA, PANZERWRECKS LTD  
[www.panzerwrecks.com](http://www.panzerwrecks.com)

Panzerwrecks Volume 25 marks the series' fourth edition on the Battle of Normandy but it never gets boring! In fact, it's an absolute feast for modellers of Second World War Third Reich hardware and it's not just Tigers and Panthers either (they are included, of course)

but there's also some quite rare stuff here too. Check out the

Krankenpanzerwagen auf Unic P107 U 304(f) and leichter Reihwerfer

(16 Rohre) auf Somua MCG on pages 58 and 59 respectively: wonderful subjects

to depict in 1:35, or smaller, or large! The vehicle-list from Panzerwrecks' website is below and it's incredible. And all this for just £25 which is remarkably good value for money. Tiger Ausf.E, Panther Ausf.G, Panther Ausf.G Befehlswagen, Panther Ausf.A, Pz.Kpfw.IV Ausf.J, Pz.Kpfw.IV Ausf.H, Sturmgeschütz IV, Jagdpanzer IV, Hummel, Sturmgeschütz III Ausf.G, 15cm Grille Ausf.K, Flakpanzer 38, Sd.Kfz.251/1, Sd.Kfz.251/3, Sd.Kfz.251/4, Sd.Kfz.251/7, Sd.Kfz.251/9, Sd.Kfz.251/16, Sd.Kfz.250/1, Sd.Kfz.234/2, Selbstfahrlafette für 7.5cm Pak 40 auf Somua MCG, leichter Reihwerfer (16 Rohre) auf Somua MCG, Krankenpanzerwagen auf Unic P107 U 304(f), Sd.Kfz.7/2, Sd.Kfz.7/1, 15cm Panzerwerfer 42, RSO/01, Volkswagen Kübelwagen, Sd.Anh.116. **MIM**





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## REAP THE WIRBELWIND

1:35 Flakpanzer IV 'Wirbelwind' from Dragon



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Modelling references for the Airfix 1:35 Ferret Armoured Car Mk.2



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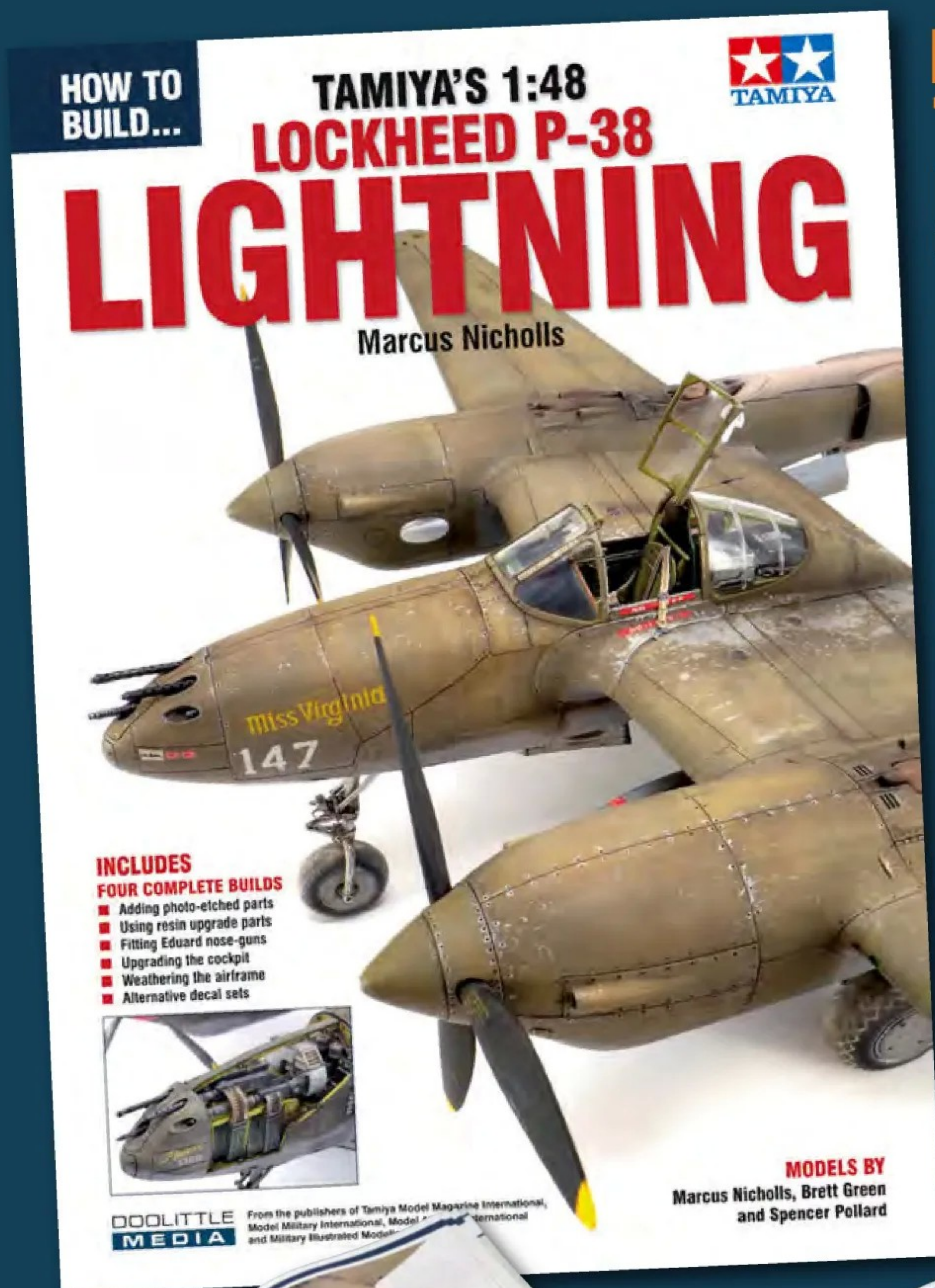
**A** Canadian CMP 13 (Canadian Military Pattern) 3-ton General Service 158 WB truck passes through Falaise, Normandy, on 17th August 1944 along Rue de Caen, in front of l'église Saint-Gervais. There were a great many variants of this vehicle, some of which are represented in kit-form, so some research would be required for an accurate depiction in a diorama. •

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# NEW from the 'HOW TO BUILD...' series



## How to Build... TAMIYA'S 1:48 LOCKHEED P-38F/G LIGHTNING

By Marcus Nicholls

The Lockheed P-38 Lightning is an iconic US fighter from the Second World War. Its twin Allison V12 engines were mounted in booms to free-up the nose so it could house a fearsome array of four M2 Browning machine guns and a 20mm cannon. The twin-boom airframe became a sight feared by enemies wherever it served, with good reason.

In 2019, after several years of painstaking research, Tamiya released an all-new kit of this sleek aircraft and it has taken its place proudly in the 1:48 Aircraft Series as No.120 in the range.

In this new 'How To Build' book, Tamiya Model Magazine's Editor, Marcus Nicholls, presents no less than four built-up examples of Tamiya's fantastic model; one Lightning each from Brett Green and Spencer Pollard, plus two from Marcus Nicholls.

The second of Marcus's models incorporates resin and photo-etched super-detail sets from Eduard, showing how they can be used within the build to take the detail to an even higher level. New photos of the other models show how Brett Green and Spencer Pollard built and painted the models in their own styles.

The book includes four complete builds, covering the following topics:

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